CORNELL UNIVERSITY MEDICAL COLLEGE

1988-1989



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The courses and curricula described in this Announcement, and the teaching personnel listed herein, are as of May 15, 1988 and are subject to change at any time by official action of Cornell University

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Medical College Calendar

FIRST YEAR

1988

Monday, August 29- Friday, September 2 Orientation

Tuesday, August 30 Registration (for any students who have not

registered by mail)

Wednesday, August 31 Opening Exercises
Monday, September 5 Labor Day Holiday

Monday, September 5 Labor Day Holiday Tuesday, September 6 Instruction begins

Friday, October 28- Friday, November 4 Reading Period and First Quarter Examinations

Monday, November 7 Second quarter begins

Thursday, November 24- Sunday, November 27 Thanksgiving recess Saturday, December 17 Winter recess begins

1989

Monday, January 2 New Year's Day observed

Tuesday, January 3 Winter recess ends, instruction resumes

Monday, January 16 Martin Luther King, Jr.'s Birthday observed

Wednesday, January 18 Second quarter ends

Friday, January 20- Friday, January 27 Reading period and Second Quarter Examinations

Monday, January 30 Third quarter begins
Monday, Febuary 20 President's Day Holiday
Friday, March 24 Third quarter ends

Saturday, March 25- Friday, March 31 Reading period and Third Quarter Examinations

Saturday, April 1- Sunday, April 9 Spring recess

Monday, April 10 Fourth quarter begins
Monday, May 8 Neuroscience Midterm Exam
Monday, May 29 Memorial Day Holiday observed

Friday, June 2 Fourth quarter ends

Saturday, June 3- Friday, June 9 Reading Period and Fourth Quarter Examinations

SECOND YEAR

1988

Friday, September 2 Registration (for any students who have not

registered by mail)
Labor Day Holiday
Instruction begins

Friday, October 7- Sunday, October 9 Reading period

Immunology Final Exam; Microbiology

Midterm Exam
First quarter ends

Monday, October 10

Monday, September 5

Tuesday, September 6

Friday, November 4

Reading period and First Quarter Monday, November 7- Friday, November 11

Examinations

Monday, November 14 Second quarter begins

Thursday, November 24- Sunday, November 27 Thanksgiving recess Saturday, December 17 Winter recess begins

1989

Monday, January 2 New Year's Day observed

Tuesday, January 3 Winter recess ends, instruction resumes Monday, January 16 Martin Luther King, Jr.'s Birthday observed

Second quarter ends Friday, January 20

Monday, January 23- Friday, January 27 Reading period and Second Quarter Examinations

Monday, January 30 Third Quarter begins Monday, Febuary 20 President's Day Holiday

Saturday, Febuary 25- Monday, Febuary 27 Reading period

Pathophysiology Final Examination Tuesday, Febuary 28

Monday, March 20 Third quarter ends Tuesday, March 21 Reading period

Wednesday, March 22 Pharmacology Final Examination

Saturday, March 25- Sunday, April 2 Spring recess

Monday, April 3 Fourth quarter begins Wednesday, May 24 Fourth quarter ends

Thursday, May 25- Wednesday, May 31 Fourth Quarter Examinations Monday, May 29 Memorial Day Holiday observed

Tuesday, June 13- Wednesday, June 14 NBME, Part I

THIRD YEAR

1988

Friday, July 1 Registration (for any students who have not

registered by mail)

Monday, July 4 Independence Day Holiday

Tuesday, July 5 Instruction begins Monday, September 5 Labor Day Holiday Thursday, November 24- Sunday, November 27 Thanksgiving recess

Sunday, December 17 Winter recess begins

1989

Monday, January 2 New Year's Day observed Tuesday, January 3 Instruction resumes

Monday, January 16 Monday, Febuary 20

Saturday, March 25- Sunday, April 2

Monday, May 29 Friday, June 23 Martin Luther King, Jr.'s Birthday observed

President's Day Holiday

Spring recess

Memorial Day Holiday observed

Instruction ends

FOURTH YEAR

1988

Friday, July1

Monday, July 4

Tuesday, July 5

Monday, September 5 Thursday, November 24- Friday, November 25

Saturday, December 17

Registration (for any students who have not

registered by mail)

Independence Day Holiday

Instruction begins Labor Day Holiday Thanksgiving Holiday

Winter recess begins

1989

Tuesday, January 3 Monday, January 16 Monday, Febuary 20 Friday, May 19 Monday, May 22 Tuesday, May 23 Winter recess ends, instruction resumes Martin Luther King, Jr.'s Birthday observed

President's Day Holiday

Instruction ends Convocation, 4:00 p.m.

July 5- July 29

Commencement, 3:00 p.m.

Elective Modules

Module A
Module B
Module C
Module D
Module E
Module F
Module G
Module H
Module I
Module J
Module K

August 1- August 26 August 29- September 23 September 26- October 21 October 24- November 18 November 21- December 16 January 3- January 27

January 30- Febuary 24
Febuary 27- March 24
March 27- April 21
April 24- May 19

Class Schedules 1988-1989

First Year: Core Curriculum

FIRST QUARTER, Weeks 1-8 (9/6/88-10/28/88)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Biochemistry		Biochemistry	Biochemistry	
10-11					5
11-12	Gross Anatomy	Gross Anatomy	Gross Anatomy	Gross Anatomy	Biochemistry
12-1		CPC			
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3					
3-4	Elective	Elective	Introductory Medicine	Psychiatry	Elective
4-5					
5.6			Elective	Elective	

SECOND QUARTER, Weeks 1-8 (11/7/88-1/20/89)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Biochemistry	Microscopic Anatomy	Biochemistry	Biochemistry	
10-11 11-12 12-1	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	Gross Anatomy	Gross Anatomy
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Elective	Elective	Elective	Biochemistry	Biochemistry
5-6					

THIRD QUARTER, Weeks 1-8 (1/30/89-3/24/89)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Physiology	Microscopic Anatomy	Physiology	Physiology	Physiology
10-11	Vissonsis	W1-1/	Weeks 3-4:	W.	
11-12	Microscopic Anatomy	Weeks 1-4: Biostatistics	Microscopic Anatomy Weeks 7-8:	Microscopic Anatomy	Elective
12-1		Elective	Physiology Laboratory		Liective
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2.3	Elective	Weeks 5-8:	Elective	Weeks 1 4 Biostatistics Weeks 5 8 Epidemiology	Elective
3-4	Elective	Epidemiology	Liective	Community	Elective
4-5				Health	
5-6		Elective		Elective	

FOURTH QUARTER, Weeks 1-8 (4/10/89-6/2/89)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
9-10	Neuroscience	Neuroscience Weeks 3 and 5: Neuroscience Lab (9-12)	Physiology	Physiology	Neuroscience
10-11	Physiology	Elective	Neuroscience	Neuroscience	Physiology
11-12					
12-1					
1-2	Lunch	Lunch	Lunch	Lunch	Lunch
2-3	Physiology	Elective	Psychiatry	Elective	Elective
3.4	Thysiology	Licetive	rsycmacry	Siecure .	Diceare .
4-5					
5.6	Elective		Elective		

Second Year

FIRST QUARTER, Weeks 1-9 (9/6/88-11/4/88)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
8.9	Weeks 1-3: Immunology	Pathophysiology	Pathophysiology	Pathophysiology	Weeks 1-3:
9-10	Weeks 4-9: Microbiology	Weeks 1-3: Immunology Weeks 4-9		Weeks 1-3:	Immunology Weeks 4-9: Microbiology
11-12		Microbiology	Weeks 1 3: Immunology Weeks 4 9: Microbiology	Immunology Weeks 4-9: Microbiology	
12-1	Lunch	CPC	Lunch	Lunch	Lunch
1-2	Pathophysiology	Lunch	Health Care Systems	Pathophysiology	Elective
2-3	T actiophysiology			radiophysiology	Dicerve .
3-4		Elective	Elective	Elective	
4-5					

SECOND QUARTER, Weeks 1-8 (11/14/88-1/20/89)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
8-9					
9-10	Pathophysiology	Pathophysiology	Pathophysiology	Pathophysiology	Pathophysiology
10-11	Pharmacology		Dharmacalogu		Dhamacalom
11-12	гнанпасоюду		Pharmacology		Pharmacology
12-1	Lunch	CPC	Lunch	Lunch	Lunch
1-2	Pharmacology	Lunch	Pharmacology	Elective	Elective
2-3	Pathophysiology	Elective	Pathophysiology		Licetive
3-4	- uniopilyolology		Elective		
4-5					

Second Year THIRD QUARTER, Weeks 1-8 (1/30/89-3/24/89)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
8-9	Weeks 1-4 Pathophysiology	Weeks 1-4:	Weeks 1-4: Pathophysiology	Weeks 1-4: Pathophysiology	Weeks 1-4: Pathophysiology
9-10		Pathophysiology Weeks 5-7:	Weeks 5-7: Physical Diagnosis		Weeks 5-7: Physical Diagnosis
10-11	Dl 1	Neurology and Physical Diagnosis	Pharmacology		Pharmacology
11-12	Pharmacology	Diagnosis	T Harmacology		Thaimacology
12-1	Lunch	Weeks 1-4: CPC	Lunch	Lunch	Lunch
1.2	Weeks 1-4: Pharmacology	Lunch	Weeks 1-4: Pharmacology	Weeks 1-4: Pathophysiology	Elective
2-3	Weeks 1-4: Pathophysiology 2-5 p.m.	Elective	Weeks 1-4: Pathophysiology	Weeks 5-7: Psychiatry	
3-4	Weeks 5-7: Neurology and	Biccurc			
4.5	Physical Diagnosis 4-6 p.m.		Weeks 5-7 Neurology and Physical Diagnosis 4-6 p m	Elective	Weeks 5.7: Neurology and Physical Diagnosis 4.6 p m

FOURTH QUARTER, Weeks 1-8 (4/3/89-5/24/89)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
8-9	Weeks 1-4: Physical	Weeks 1-4: Parasitology	Weeks 1-5: Physical Diagnosis Weeks 6-8:	Weeks 1-4: Parasitology	Weeks 1-4: Parasitology
9-10	Diagnosis	8-11 a.m. Weeks 5-8: Physical	Introduction to the Clinical Years		
10-11	Introduction to the	Diagnosis 9 a.m12 noon	Introduction to the		Introduction to the
11-12	Clinical Years	Weeks 1-4: Neurology	Clinical Years	Weeks 1-4: Neurology	Clinical Years
12-1	Lunch	Lunch	Lunch	Lunch	Lunch
1-2	Elective	Ethics	Elective	Psychiatry	Elective
2-3	Neurology and		Neurology and	Tsychiatry	Neurology and
3-4	Physical Diagnosis		Physical Diagnosis		Physical Diagnosis
4-5				Elective	

Third Year Rotations 1988-1989

	_	6/23/89							
4		. 2 0, c,	Rad Neurology	Psychiatry	OB-GYN	Pediatrics			
Quarter 4			Rad•		. ~	Д.	Surgery	cine	
Önő		5/15/89		Rad			Sur	Medicine	
			Psychiatry	Neurology Rad•	Pediatrics	OB-GYN			
	_	4/3/89					Spring Recess		
3		3/24/89	Rad• Neurology	Pschiatry	OB-GYN	Pediatrics		0	
Quarter 3		2/13/89	Rad•				Surgery	Medicine	
Qua		2/13/09		Rad•	8	7	Sur	Mec	
		. (2.02	Psychiatry	Neurology Rad•	Pediatrics	OB-GYN			
		1/3/89					Winter Recess		
2		12/16/88	Rad* Neurology	Psychiatry	OB-GYN	Pediatrics			
Quarter 2		** /= /00	Rad*	Ps	0	Pe	ery	ine	
Qua	ĺ	11/7/88		ad•			Surgery	Medicine	
			niatry	By R	Pediatrics	OB-GYN		-	
			Psychiatry	Neurology Rad*	Pedia	OB-(
	_	9/26/88							
	Γ	9/26/88	ıry		cs	z			
ter 1			Psychiatry	Neurology Rad* Ne	Pediatrics	OB-GYN	ery	cine	
Quarter 1		9/26/88 8/15/88		Neurology Rad*			Surgery	Medicine	
Quarter 1			Rad• Neurology Psychiatry		OB-GYN Pediatrics	Pediatrics OB-GYN	Surgery	Medicine	



THE MEDICAL COLLEGE

Purpose and History

Cornell University Medical College seeks excellence in its students, and expects those studying here today to emerge tomorrow as leaders in the field of medicine. At Cornell, research and the advancement of medical knowledge are not only ends in themselves, but are integrated in a vision of the scientific basis of a thorough medical education. To cultivate leadership potential, Cornell strives to stimulate creativity and foster independent thought and study. To promote the development of true social commitment, the Medical College exposes students to real-life responsibilities in a variety of practice settings, with the constant goal of optimal patient care.

An abiding focus on the science behind medical knowledge and techniques has been central at Cornell since the school's establishment in 1898. Cornell University president Jacob Gould Schurman, in his address at the Medical College's opening ceremonies, set the tone for the decades to come. "What is needed for the training of physicians and surgeons today?" asked Schurman. "I answer, first, science; secondly, science; thirdly, science." Delivered with a missionary's fervor 90 years ago, these words remain notable not simply for the way they continue to affirm the emphasis placed by Medical College faculty on the scientific basis of medical training, but as an indication of how far the field has traveled in the last century, and how great a part Cornell Medical College has played in that development.

In 1898, the field of medicine was only beginning to stress a scientific foundation, and most medical schools in the United States were just starting to resemble medical schools as we know them today. Through most of the 19th century, many medical schools had lower entrance requirements than those of a good high school. Once admitted, a medical school student was taught by lecture exclusively, and had only to sit through two four-month terms before being given, automatically, an M.D. degree. Few medical students ever touched a patient or had any clinical experience prior to graduation.

The founding of Cornell Medical College coincided with a period of momentous change and strengthening of medical education in this country. Established and generously endowed through the gifts of Colonel Oliver H. Payne, Cornell University Medical College quickly became a national leader in medical instruction. One of Colonel Payne's requirements was that the Medical College be a university medical school. Admitting men and women from the outset, Cornell was also one of the country's first coeducational medical schools.

Cornell's original faculty, highly regarded as both scientists and teachers, recognized a broad liberal education as a prerequisite to a successful medical education. Thus did Cornell pioneer another trend: requiring all incoming students to have an undergraduate degree.

Although Cornell University was founded and continues to flourish in Ithaca, New York, the University's Medical College was established in New York City to provide its students with opportunities for clinical learning and laboratory-oriented instruction that were practically unheard of at the time. This clinical focus remains central to the Cornell experience.

As the scientific pursuit of medicine gained prominence, a new kind of institution arose the partnership of university and hospital in an academic medical center. The Medical College and The New York Hospital first signed a limited affiliation agreement in 1913; formal affiliation in 1927 joined the facilities of the two institutions. Hospital and college were brought to one location in 1932 with the opening of The New York Hospital-Cornell Medical Center, physically confirming the fundamental integration underpinning the academic medical center and its triple mission of education, research, and patient care.

Today, the Memorial Sloan-Kettering Cancer Center, the Rockefeller University, and the Hospital for Special Surgery are grouped with The New York Hospital-Cornell Medical College on Manhattan's Upper East Side. Other affiliated institutions in the greater New York area include the Burke Rehabilitation Center in White Plains, the Catholic Medical Center of Brooklyn and Queens, the North Shore University Hospital on Long Island, St. Barnabas Hospital in the Bronx, and LaGuardia

Hospital in Forest Hills. In addition, the Medical College remains a vital component of Cornell University, one of the world's leading research universities.

Now at the heart of a world-renowned center of medical education, biomedical research, and health care, the Medical College remains committed to the advancement of medical knowledge through work done by faculty and students alike. As a pioneer in the early 1950's in developing the concept of comprehensive care for patients as well, Cornell investigated and refined the effective matching of patient needs with medical and community resources, through its Comprehensive Care and Teaching Program. While the formal program ended in the 1960's, the precepts of comprehensive patient care learned from the undertaking continue to be applied today routinely.

Medical education at Cornell aims at development of individuals who not only recognize and are dedicated to the highest quality patient care, but also understand their responsibility for contributions through personal scholarship. An unusually large number of medical leaders have emerged from Cornell University Medical College over the years.



LOCATION AND NEIGHBORING INSTITUTIONS

Located in New York City, Cornell Medical College is based in one of the world's foremost centers of medicine and medical research. The College itself, situated along York Avenue on Manhattan's attractive upper east side, is part of one of the country's most prestigious biomedical research complexes. In addition to The New York Hospital, this complex includes Memorial Sloan-Kettering Cancer Center, The Hospital for Special Surgery, and Rockefeller University - private institutions established in contiguity to promote collaboration and integration of programs in the fields of education, research, and patient care.

Cornell Medical College classrooms, laboratories, research facilities, department offices, and student housing are all within three blocks of one another. Medical College offices and teaching and research facilities are located within a series of joined buildings, identified by the letters A through E, between 68th and 70th Streets. In addition, the William and Mildred Lasdon Biomedical Research Center is nearing completion between 68th and 69th Streets (adjacent buildings D and E are undergoing major renovation as part of this project). Included within the \$48 million Research Center is the Biomedical Information Center, which will combine the existing Samuel I. Wood Library with state-of-the-art computer and information resources facilities.

AFFILIATIONS

Cornell Medical College affiliations-both in the York Avenue neighborhood and throughout the New York City metropolitan area-offer students opportunities for clinical experience of exceptional breadth. Many of the affiliated institutions are world-renowned leaders in their fields.

The New York Hospital. Founded in 1771 under a charter granted by King George III of

England, The New York Hospital was the first hospital in the city and the second in the country. Originally built downtown, the hospital has been located adjacent to the Medical College since 1932. A nonprofit, voluntary institution maintained by The Society of The New York Hospital, it has cared for more than five million patients since its founding. Three hospitals have merged with The New York Hospital over the years: The Lying-In Hospital, the Manhattan Maternity and Dispensary, and the New York Nursery and Child's Hospital.

The New York Hospital was the first hospital in the United States to care for the mentally ill. Today, mental and emotional illnesses are treated at the Payne Whitney Psychiatric Clinic, an integral part of The New York Hospital complex, and the Westchester Division of The New York Hospital, in White Plains, New York.

Since 1927, the hospital has been integrated with the Cornell Medical College through the establishment of The New York Hospital-Cornell Medical Center. The agreement joined the facilities of the two institutions and provided for cooperation in the advancement of patient care, medical education, and scientific research.

There are 1,140 beds in The New York Hospital, and an additional 322 beds in the Westchester division. Clinical instruction is given in ten clinical departments that include many divisions or subspecialties. There are more than 25 residency training programs offered for a total of 470 residency positions. The chairman of each department is responsible for the care of the patients and the conduct of the professional services in the hospital, and is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by salaried faculty members, including the chairman, who devote their full time to the service of the College and the Hospital. Other members of the faculty devote part of their time to private practices.

The Hospital for Special Surgery. The Hospital for Special Surgery (HSS), founded in 1863 by the New York Society for the Relief of the Ruptured and Crippled, was the first institution in the United States dedicated to the treatment of orthopedic conditions and today is a leader in the fields of orthopedics and rheumatology. Affiliation with The New York Hospital-Cornell Medical Center began in 1955, the same year the hospital moved to its present location at 535 East 70th Street.

The 192-bed hospital cares for more than 5,000 inpatients a year, and receives 80,000 outpatient visits annually to HSS physicians and in 25 subspecialty clinics. The hospital is the site of the Cornell Medical College's residency program in orthopedic surgery. Thirty residents are trained in this four-year program while an additional 8-10 clinical fellows receive training in advanced programs in rheumatic diseases and orthopedic subspecialities. The hospital also maintains the School of Practical Nursing.

The Philip D. Wilson Research Foundation opened in 1960 affirming the hospital's ongoing commitment to investigate the causes and prevention of orthopedic and rheumatic diseases, and to develop improved treatment of these diseases.

The Hospital for Special Surgery provides the orthopedic and rheumatic disease services for The New York Hospital-Cornell Medical Center.

Memorial Sloan-Kettering Cancer Center. Memorial Sloan-Kettering Cancer Center is the nation's oldest privately operated, nonprofit center devoted to patient care, research, and education in cancer. This comprehensive cancer center has two operating organizations: Memorial Hospital, which provides 565 beds for inpatient care, an extensive array of specialized and support services, and a broad program of clincal research; and the Sloan-Kettering Institute, with nearly 100 laboratories dedicated to cancer-related biomedical investigation.

Programs of basic and clinical research at Memorial Sloan-Kettering aim to advance the understanding of the nature and the fundamental causes of cancer, and to improve the means for prevention, diagnosis, and treatment. Research at the Sloan-Kettering Institute is organized into four major areas: Molecular Biology; Cell Biology and Genetics; Immunology: and Developmental Therapy and Clinical Investigation. Clinical research programs are conducted under the auspices of the individual departments of Memorial Hospital.

First year student describes the function of the heart to grade-schoolers in P.S. 146 on their "Health Day'



Originally established in 1884, Memorial Hospital has been affiliated with Cornell Medical College since 1914, and many of its staff members hold appointments at the College. Many Sloan-Kettering Institute staff also hold appointments, either in the Medical College or in the Graduate School of Medical Sciences, which offers degrees through the Sloan-Kettering Division. The Center is a major resource for the Medical College, G.: ring students clinical instruction and research opportunities. Center facilities provide unparalleled instruction in the pathology, diagnosis, and treatment of neoplastic disease.

North Shore University Hospital.

North Shore University Hospital is a 614-bed, 50-bassinet, general care, voluntary institution situated on 56 acres in Manhasset, Long Island. Twenty miles from the Medical College, North Shore serves the populous counties of Nassau, Suffolk, and Queens, as well as the entire tristate area in certain subspecialties. The hospital opened in 1953 and became formally affiliated with the Medical College in 1969.

North Shore is in the midst of a major expansion. Currently under construction are additional residences for professional staff and a 250-bed health-related nursing home. A research complex and enlarged nursery facilities have recently been completed.

Clinical instruction is provided in medicine, neurology, surgery, ophthalmology, pediatrics, pathology, psychiatry, radiology, and obstetricsgynecology to students at the second-, third-, and fourth-year levels. Nearly 250 residency training positions are offered in many disciplines. All members of the professional staff of the Hospital hold appointments on the faculty of the Medical College and participate in its teaching programs. In addition, each clinical service has a staff of full-time faculty members involved in research, teaching, and clinical

Education is also enhanced through affiliations in many specialties with several local hospitals where community-oriented programs provide important experience for students in the Medical College. Outreach programs with local colleges and community agencies provide further opportunities for study.

The Burke Rehabilitation Center.

The Burke Rehabilitation Center in White Plains, New York, was founded in 1915 by John Masterson Burke as a tribute to the memory of his mother, Winifred Masterson Burke. In 1968, the Burke Center became

affiliated with The New York Hospital-Cornell Medical Center.

With its 150 patient beds, the Burke Rehabilitation Center offers a multidisciplinary approach to rehabilitation, providing diagnostic, evaluative, and treatment services to those in need of rehabilitative care. The primary objective is the integration of the disabled patient into the community as a responsible individual.

The Burke Center's comprehensive program includes services of physicians trained in rehabilitation, neurology, cardiology, rheumatology, pulmonary disease, and internal medicine. Among the research and study programs being conducted at the Burke Rehabilitation Center are: a research program investigating dementia and allied diseases of the nervous system, research into Parkinson's disease, a cardio-pulmonary study, molecular neurobiology research, and sociomedical studies.

Will Rogers Institute. In 1977, the Will Rogers Memorial Fund joined with the Burke Rehabilitation Center and The New York Hospital-Cornell Medical Center to form a joint program called the Will Rogers Institute. The institute provides health education for the general public through the communications media, and promotes basic and clinical research in pulmonary disease through the establishment of the Will Rogers Professorship in Pulmonary Medicine at the Burke Rehabilitation Center, and a Will Rogers Pulmonary fellow.

Catholic Medical Center of Brooklyn & Queens.

The Catholic Medical Center operates five facilities: Mary Immaculate Hospital in Jamaica, St. John's Queens Hospital in Elmhurst, St. Joseph's Hospital in Flushing, St. Mary's Hospital in Brooklyn, Holy Family Hospital, also in Brooklyn- more than 1,150 beds in all and St. Anthony's Center in Woodhaven with Cancer Research Laboratories, School of Nursing, Laboratory and Radiologic Technology and a School for Pathology Assistants. The Monsignor James H. Fitzpatrick Pavilion for Skilled Nursing Care, a 105 bed facility, is located in the Mary Immaculate Hospital. This will permit expansion of the Center's programs in Geriatrics. The Center provides an educational site for training medical students and housestaff, as well as tertiary care referrals to The New York Hospital. Cornell medical students serve required clerkship rotations in

Obstetrics and Gynecology and Pediatrics and elective clerkships in Community Medicine, Family Medicine and Emergency Medicine.

St. Barnabas Hospital. Established in 1866 in the South Central Bronx as a chronic disease facility, St. Barnabas Hospital has recently been converted to a modern 415-bed, acute care, voluntary institution. St. Barnabas became affiliated with The New York Hospital-Cornell Medical Center in 1982 to provide a comprehensive range of medical services to the community and to serve as an educational site for students and housestaff.

LaGuardia Hospital. LaGuardia Hospital is a 304-bed, voluntary community hospital. The hospital is affiliated with the Health Insurance Plan of Greater New York, the largest and one of the oldest pre-paid group practices on the East Coast, covering over 900,000 subscribers for their health care requirements. Since 1978, LaGuardia Hospital has been affiliated with The New York Hospital-Cornell Medical Center for several integrated residency programs. In addition, some Cornell medical students rotate through LaGuardia Hospital during the required clerkship in Obstetrics and Gynecology, and fourth-year elective experiences are offered through the Department of Medicine. LaGuardia Hospital draws on both its own full-time Chiefs of Service and medical staff and the Cornell faculty for hospital education programs.

LIBRARIES

With scholarship as a primary mission of the Medical College, the library system is the principal resource supporting that mission. The Medical College library exists with two main goals: to facilitate access to biomedical information; and to provide assistance to students and faculty in managing this burgeoning body of information.

One of the country's first fully automated medical libraries, the Medical College library features computer terminals throughout the facility on which access to library materials may be obtained. Bibliographic searches of citations to articles in the journal collection can be performed with a miniMEDLINE interface. Communications terminals connect the Educational Services Department to a wide variety of databases, including the biomedical and psychiatric literature. Instruction is given in manual or computer-based information searching.

The Medical College library has ready access to resources at all of New York City's major medical libraries. Any materials required by students or faculty that are not in the Cornell collection may be requested for loan through the Interlibrary Loan Department.

A microcomputer center, with an extensive software collection, is maintained at the library for staff and student use, and introductory microcomputer instruction is provided. Typing, laser printing and photoduplicating facilities are also available, along with a full assortment of audiovisual materials, including films, slides, video, and audiotapes. The Audiovisual Services Department also provides projection equipment and services, as well as room reservations for meetings and conferences.

In recognition of the escalating need to handle great quantities of information quickly and effectively, Cornell has made a major commitment to enhance the Medical College library system with the announcement of a new biomedical information center. Construction began in 1986 and the first phase will be ready for occupancy in the fall of 1988.

Occupying the entire 25th floor of The New York Hospital is another part of the Medical College library system- the Medical Archives of The New York Hospital-Cornell Medical Center. Established in 1972, the Medical Archives collects, organizes, preserves, and makes available the official papers of the Center and its antecedent institutions. The collection represents a continuous record of medical care and research since 1771 and includes personal papers, photographs, antique instruments, and apparatus developed at the Center.



ADMISSIONS

Requirements

The Committee on Admissions of Cornell University Medical College seeks students capable of becoming future leaders in the field of medicine. Applicants must be thoroughly prepared in the sciences on the one hand and well versed in the liberal arts on the other science and non-science majors are equally considered.

Although most applicants will have completed four years of college, possession of an undergraduate degree is not a requirement of candidates for the degree of Doctor of Medicine from Cornell University. Candidates exhibiting exceptional educational and personal initiative and development may be seriously considered for early admission to the study of medicine at Cornell.

For admission, Cornell University Medical College requires the satisfactory completion of at least six semester credit hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Candidates must realize that a thorough basic training in scientific concepts and methods can only be acquired through rigorous laboratory experience; at least two terms of biological science beyond the introductory level, for instance, are recommended for non-science majors. Science majors, however, must not overlook the broad educational value of study in the humanities and social sciences. In any case, candidates planning premedical work should pursue subjects that provide a broad foundation for medical study rather than attempt to anticipate courses required in the medical curriculum.

All applicants are required to take the Medical College Admissions Test (MCAT), viewed by the Admissions Committee as evidence of minimal academic competence and as a standardized test which allows appropriate comparisons.

Application

Application to Cornell University Medical College must be made through the American Medical College Application Service (AMCAS) -Suite 301, 1776 Massachusetts Avenue, NW, Washington, DC 20036-1989. AMCAS is the sole distributor of application forms and instructions, which can be obtained upon request. After Cornell receives the AMCAS application, additional information will be requested and instructions will be given about the submission of letters of evaluation. Evaluations by a premedical advisory committee is preferred. If this is not available, the applicant may substitute two letters of evaluation from members of the undergraduate science faculty who are well acquainted with the student. A \$50 application fee must accompany the supplementary application form. The fee may be waived for financial reasons for those applicants eligible for waivers of the AMCAS fee.

When the Admissions Committee receives the supplementary information, the letters of evaluation, and the application fee, it will carefully review the completed application and select students for personal interviews. Students invited for personal interviews will be those, among the large number of applicants, who will be most seriously considered for acceptance.

The committee will notify applicants of its decision after March 1. Applicants who are accepted have two weeks following receipt of their letter of acceptance to secure a place in the class by sending a \$100 deposit. This deposit is deductible from the first tuition payment.

Selection

From an applicant pool of approximately 5,000, the Admissions Committee each year selects a class of one hundred and one students. Given such numbers, the Medical College clearly receives applications from many more candidates meeting the basic qualifications for the study of medicine than it can possibly accept. In addition to objective criteria, therefore, evaluation of applicants also involves subjective judgments including an assessment of student motivation, maturity, stability, and other factors deemed by the faculty to be essential for the education of an effective and competent physician.

To be seriously considered for admission, candidates must complete the required course work and demonstrate superior academic accomplishment at the undergraduate level. They also must be of good moral character and possess the requisite sensory, cognitive, motor, and organizational skills - including the ability to synthesize and apply knowledge - which are necessary to master the entire curriculum of the Medical College.

Cornell attempts to maintain a heterogeneous student body by selecting well-qualified students from diverse economic, geographic, academic, and racial backgrounds. The number of students accepted from any one college, region, race, or sex thus may vary from year to year. Well-motivated students from particularly adverse economic or social backgrounds who have had substandard educational opportunities are seriously considered.

University policy actively supports equality of educational and employment opportunity. No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, race, color, creed, religion, national or ethnic origin, sex, age, or handicap. Cornell is committed to the maintenance of affirmative action programs which will assure the continuation of such equality of opportunity.

All policies regarding admission, employment, and educational programs and activities are established and administered in conformity with the Education Practices Act of New York, as well as state and federal civil rights laws, specifically including Title IX of the Education Amendments Act of 1972, and regulations thereunder, prohibiting practices or policies in admissions, education programs or employment that are in any way discriminatory on the basis of sex.

Early Decision Program

The early decision program (EDP) provides an excellent opportunity for admission to those highly qualified applicants who are interested in attending Cornell University Medical College. Applications are accepted until August 15 and are processed through the American Medical College Application Service (AMCAS). All EDP applicants will be notified of their EDP status by October 1. Accepted candidates are not eligible to apply to any other medical school and must enroll at Cornell the following September. Candidates not accepted will be deferred for consideration with the regular pool of candidates and notified of their final admissions decision in March. However, these applicants are eligible to apply to other medical schools in the interim. Please contact the Office of Admissions for further information.

Advanced Standing

When vacancies occur in the second- or thirdyear classes, students may be admitted with advanced standing. Only those students who have completed and passed examinations in the equivalent basic science course work as full time matriculated medical students in LCME accredited medical schools are eligible for consideration for transfer to Cornell University Medical College.

Applicants must submit the formal application for admission with advanced standing as well as official transcripts of all prior academic work. Applicants must also submit two letters of evaluation from their medical school basic science faculty, as well as a letter from the Dean of Student Affairs stating that the student is in good academic standing. These candidates must furthermore have fulfilled the requirements for admission to the first-year class at Cornell University Medical College. They may be required to take examinations in any medical school course taken in another school. Applications and additional information may be obtained in January of the year for which admission is sought. Applicants should apply to the Office of Admissions, 445 East 69th Street, New York, New York, 10021 Those who are accepted must send a \$100 deposit, which is deductible from the first tuition payment.

Visiting Students

Visiting students are candidates for the M.D. degree at other LCME-accredited medical schools who have been selected and approved to take fourth-year elective courses offered by Cornell University Medical College. Application to any elective course is made through the Office of Academic Affairs. A letter of recommendation from the Academic Dean of the parent medical school and a Student Health Form must accompany the student's application. A visiting student may participate in no more than eight weeks of elective courses during any academic year. The student's parent school must provide adequate professional liability insurance to cover the student's activities while in attendance at Cornell University Medical College. Cornell will not charge tuition.

Auditing Students

Auditing students are individuals who attend lecture courses at the discretion and with the permission of the department chairman. No courses offered by clinical departments may be audited. Records will not be maintained. Students who audit courses will receive no credit, and may not take final examinations.

Summer Fellowship Program for Minority Students

A summer fellowship program for minoritygroup students at the Medical College aims specifically to add to the number of minoritygroup students currently in medical schools and, in general, to increase awareness among the minorities of the great variety of medical career opportunities. Promising premedical students who have completed their junior year spend seven weeks as summer fellows at the Medical College.

Fellows work four days a week at a variety of research activities with faculty sponsors from different departments. The students in this program are often involved jointly with medical students who hold similar fellowships. Students take a specially designed course in cardiovascular physiology and participate in a series of seminars about community health problems. Minority physicians from the faculty discuss the practical aspects of a range of medical specialties, and advanced year medical students take summer fellows on evening rounds in the hospital.

Information regarding fellowship application and all other aspects of minority group admissions can be obtained by writing to Bruce L. Ballard, M.D., Associate Dean, Cornell University Medical College. Application should be made after the first semester of the junior year, and not later than March 1.



Second year students reviewing pathology lessons in the College's "PathMAC Lab".



EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

The Medical College is divided into seventeen departments. Seven departments are concerned primarily with the sciences underlying clinical medicine - the Departments of Biochemistry, Cell Biology and Anatomy, Microbiology, Pathology, Pharmacology, Physiology and Biophysics, and Public Health. The other ten departments focus upon the study, treatment, and prevention of human diseases, and maternity care - the Departments of Anesthesiology, Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Otorhinolaryngology, Pediatrics, Psychiatry, Radiology, and Surgery.

The Executive Faculty Council and General Faculty Council share the responsibility for all policies at the Medical College. Executive Council members are academic administrative officers or chairmen of those departments with major teaching commitments to medical students. Elected faculty representatives from all Medical College departments comprise the General Faculty Council. Each of the four classes of medical students elects representatives to the Medical Student Executive Council, which serves as a forum for student opinion and for communication between faculty and students. The Curriculum Committee is chaired by the Senior Associate Dean for Academic Affairs and consists of the chairman or designated faculty representative from each department and a student representative from each class. This committee is ultimately responsible for evaluation, planning and implementation of the medical college curriculum.

Courses in each department are arranged in sequence and duration to develop logically the knowledge and training of Cornell medical students. Departments offer courses that must be completed before the Doctor of Medicine degree can be conferred. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-two weeks each.

The New York Hospital-Cornell Medical Center Burn Unit — a clinical training opportunity for Medical College students.

With the continual goal of maintaining and furthering the high standards of the academic programs at Cornell, the faculty reserves the right to make changes in the curriculum at any time. A recent, significant change involved the implementation of a new curriculum at the Medical College.

The result of three years of faculty effort, the new curriculum reflects a widespread reassessment in the field of medicine that is beginning to reshape medical education for the first time in 60 years. One of the major objectives of the new curriculum is an emphasis on selfeducation by students. Students are now spending less time in formal classroom instruction and more time learning in small groups or individually through independent study. Problem-solving and critical thinking skills are emphasized, imparting to students the resources by which they may, on their own, absorb and evaluate the ever-increasing amount of new scientific knowledge, both during their years of post-doctoral training and in practice.

The various Medical College departments offer courses and opportunities for special study to students in the Medical College, to candidates for advanced degrees in the Graduate School of Medical Sciences, and to qualified students of medicine from schools accredited by the Liaison Committee on Medical Education.

A thesis is not required for graduation, but a student's independent work may produce results worthy of publication and qualify the student for the degree of *Doctor of Medicine with Honors in Research*. Students are urged to devote time to a single subject in which they have a special interest. Great technical proficiency in all of the various fields of clinical medicine is not expected during the regular medical course, but must await further training after graduation.

However intensive a period of study medical school may be, only a small part of the medical knowledge needed for a successful career in medicine can be acquired in four years as a medical student. Prospective physicians further devote at least one year, and usually many more years, to graduate medical education in preparation for the practice of medicine - as an intern or resident in a hospital, either in clinical or laboratory work or both.

First-Year Curriculum

The first year of study is devoted to cell biology and anatomy, biochemistry, physiology, neuroscience, biostatistics, epidemiology, psychiatry, and introductory medicine (including the basic interviewing techniques and the sociological determinants of disease). These courses offer clinical conferences to illustrate the application of the basic sciences to clinical medicine. Elective time provides students the opportunity to participate in basic science electives or research.

Second-Year Curriculum

In the second year, the basic sciences of microbiology, pharmacology, immunology, and a major new course in pathophysiology are completed and the full-time clinical curriculum is begun with physical diagnosis, neurology, psychiatry, public health, and an introduction to clinical medicine. Weekly clinical pathological conferences are scheduled to integrate the basic and clinical sciences. As in the first year, students may participate in basic science electives or research, with an emphasis on problem-solving, critical thinking, and understanding the basic science literature.

Third-Year Curriculum

Clerkships lasting from four to twelve weeks during the 48-week third-year curriculum provide a sound basic introduction to all the major clinical fields, including medicine, neurology, obstetrics and gynecology, pediatrics, psychiatry, radiology, and surgery. Students completing this clinical core curriculum are sufficiently acquainted with the various clinical specialties to identify their primary areas of interest, both in the clinical and basic science fields. Accordingly, they are prepared to plan an educational program for their final year in medical school that is best suited to their interests.

In the spring of the third year, each student chooses a senior faculty member as an adviser to help in planning the fourth-year program.

Fourth-Year Curriculum

During the fourth year, students correlate their preceding medical school experiences and begin to function effectively in the physician's role while sharpening their clinical skills in preparation for residency training. Students are required to take four months of selectives and four months of electives in the fourth year. Required selectives include one month of ambulatory care medicine or pediatrics, a onemonth subinternship in either general medicine or pediatrics, one month of basic science teaching or research in basic science or clinical medicine, and a one-month rotation, half of which is a Public Health clerkship and half of which is an anesthesiology-critical care clerkship.

The Fourth Year Course Catalog describes the numerous opportunities available in the Medical College. Other electives in the Medical College or in other educational institutions may be arranged with the approval of the student's adviser and the Dean's Office.

The various Medical College departments will offer courses and opportunities for special study to students in the Medical College, to candidates for advanced degrees in the Graduate School of Medical Sciences, and to qualified students of medicine from schools accredited by the Liaison Committee on Medical Education.



SPECIAL PROGRAMS

One Year Research Fellowships

A number of opportunities are available for Cornell University Medical College students to spend a year in investigative work in the basic or clinical sciences after at least one year of study. Students participating in such a research fellowship program may submit their research for consideration for the *Doctor of Medicine with Honors in Research* degree. Fellows doing research at Cornell or its affiliates must pay a matriculation fee to maintain enrollment status and are eligible for Medical College housing, the Student Health Plan, and loan deferment.

Medical Scientist Training Programs (M.D.-Ph.D.)

These programs are designed to expose a student to medical and graduate disciplines during a six-year course of study. Skills received in basic research combined with experience in a clinical setting will prepare graduates from this program to pursue investigative careers in the biomedical sciences or in clinical medicine.

The student spends the first two years as a medical student studying the basic medical sciences and attending regular graduate seminars. The summer months are spent in the laboratory learning experimental techniques and doing research. Years three, four, and five of the student's program are spent as a fulltime graduate student and are devoted mainly to laboratory research and thesis writing. The sixth year of the program is devoted to clinical clerkships. Six years is the minimum time during which a student can meet residence requirements for both the M.D. and Ph.D. degrees.

Applicants to these programs must be rigorously prepared in undergraduate science and display an early commitment to a career combining both clinical and laboratory research. Accepted students become M.D.-Ph.D. Fellows and receive a full tuition scholarship and stipend covering living expenses for all six years.

Cornell University Medical College participates in two Medical Scientist Training Programs:

- 1. M.D.-Ph.D. Program with the Cornell University Graduate School of Medical Sciences: Preclinical and clinical training are provided by the faculty of Cornell University Medical College. Graduate education in the biomedical sciences is offered under the direction of faculty members of the Graduate School of Medical Sciences in research laboratories located at the Medical College and at the Sloan-Kettering Institute. Students receive the Ph.D. degree from Cornell University.
- 2. M.D.-Ph.D. Program with The Rockefeller University: Students in this program pursue their medical education at the Cornell University Medical College and their graduate education in the many areas of study available at the adjacent Rockefeller University, under the direction of the Rockefeller faculty. Students completing this program receive the Ph.D. degree from The Rockefeller University.

Applicants to the first program must simultaneously satisfy the separate requirements for admission to Cornell University Medical College and to the Graduate School of Medical Sciences. After screening, selected applicants will be invited to visit the Medical Center and meet with members of the faculty of the medical and graduate programs.

For additional information about the first program including application procedures, contact: Cornell University Graduate School of Medical Sciences, 1300 York Avenue, New York, N.Y. 10021 (212/746-6565). Information and application forms for the Rockefeller program may be obtained from the Dean's Office, The Rockefeller University, York Avenue and 66th Street, New York, N.Y. 10021 (212/570-8086).

Graduate School of Medical Sciences

The Graduate School of Medical Sciences is a semi-autonomous component of the Graduate School of Cornell University, providing opportunities for advanced study and research training in specific areas of the biomedical sciences. Collaborative programs with Cornell University Medical College lead to the combined degrees of Doctor of Medicine and Doctor of Philosophy, as outlined above. Overall, the various programs of the Graduate School aim to prepare students for careers in research and training in the basic biomedical sciences or in clinical medicine.

The faculty of the Graduate School of Medical Sciences is drawn primarily from the professional staff of the basic sciences departments of Cornell University Medical College, and from those professional staff members who hold appointments in the neighboring Sloan-Kettering Institute for Cancer Research.

Graduate students have available all of the facilities of the Cornell University Medical College and the Sloan-Kettering Institute for Cancer Research. In addition to libraries and recreational resources, these facilities include modern laboratories and state-of-the-art research equipment.

Detailed information on the Graduate School can be found in the Announcement of the Graduate School of Medical Sciences, available through the office of the Cornell University Graduate School of Medical Sciences, 1300 York Avenue, New York, N.Y. 10021 (212/746-6565).

Cornell Scholars in Biomedical Sciences and Clinical Investigation

A career development program funded by the income from an anonymous gift, this program is designed to attract unusually promising young investigators to the Medical College. Eligible candidates must hold M.D. or Ph.D. degrees and qualify for the rank of Assistant Professor. Successful candidates receive research awards in the amount of \$200,000.

payable over a three-year period. Nominations for the Award originate with the chairman of the department offering the appointment, and selection is based on recommendations made after review by an external Advisory Committee, consisting of Baruj Benacerraf, M.D., Seymour S. Kety, M.D., Arthur Kornberg, M.D., Helen Ranney, M.D., and James D. Watson, Ph.D.

The following faculty have received these awards:

1984; Francis Barany, Ph.D. (Microbiology), Daniel A. Nachshen, Ph.D. (Physiology) (deceased), Leonard S. Schleifer, M.D., Ph.D. (Neurology)

1985; Moses Chao, Ph.D. (Cell Biology and Anatomy), David N. Posnett, M.D. (Medicine)

1986; Joelle Gabay, Ph.D. (Medicine)

1987; Arthur M.C. Brown (Cell Biology and Anatomy) and Jonathan D. Victor, M.D., Ph.D. (Neurology)

1988; Kuo-Chi Cheng, Ph.D. (Pediatrics), Steven A. Goldman, M.D., Ph.D. (Neurology)



STUDENT LIFE

Although part of a large, world renowned biomedical complex, Cornell University Medical College can be seen at the same time as a small, well-defined community. Not only do 98% of Medical College students live within a two-block area surrounding the classrooms and laboratories, but also the college's upper East Side location in Manhattan offers comfort and convenience as a self-contained, safe, residential neighborhood.

This unique community is dramatically augmented by its location within one of the world's great cities - a city that classes of Cornell students learn to explore and enjoy each year. New York City presents to students of the Medical College an unparalleled range of cultural and recreational activities - many within walking distance, and all easily accessible on public transportation. The exhilarating island of Manhattan is only thirteen miles long and much of the world's best art, music, theatre, cinema, sports, and food is literally at the doorstep of every Medical College student.

Student Housing

Cornell University Medical College guarantees housing to its students, in one of three University-owned buildings. F.W. Olin Hall, located at 445 East 69th Street, is directly across from the York Avenue entrance to the Medical College. The ten-story Olin Hall contains 260 living units, plus a gymnasium, student lounge, and library. Each student room is furnished as a single bedroom-study. Since two rooms have a connecting bath, they may be used as a suite for two students, if desired. All first-year students live in Olin Hall.

Housing for married first-year students and all upper-class students is available in Livingston-Farrand Apartments and in the Jacob'S. Lasdon House. Both buildings contain studios. There are one bedroom apartments to be shared by married couples or two students and two bedroom apartments to be shared by three students.

Traditional Christmas Show – students exhibit non-scientific talent annually at class shows in December. Medical College students pay rents that are well below standard rent levels on the upper East Side. The student housing fee for Olin Hall in 1988-1989 is \$226 per month. In Lasdon House and Livingston-Farrand, fees per student in shared apartments are about \$285 per month. Housing fees in all buildings are subject to change.

Student Health Care

The Student Health Care Plan of Cornell University Medical College provides hospitalization and major medical insurance for all medical students. The Plan also provides for ambulatory care at the Student Health Service. Physicians at the Health Service will refer students who require specialized care to attending physicians of the staff. Each incoming student receives information concerning the Student Health Service along with a complete statement of the benefits provided by the plan.

The cost of medical services provided by the Plan are included in the tuition charged by the College each academic year. Students are issued membership cards in the plan and receive courtesy privileges at The New York Hospital pharmacy.

Entering students must have a physical examination, chest x-ray, and laboratory tests performed by their personal physicians prior to matriculation. Students may purchase insurance coverage for eligible dependents who do not have other insurance available to them. Insured dependents are not eligible for care at the Student Health Service.

Student Organizations and Societies

There are many student organizations at the Medical College, and students are selected each year to be Cornell representatives to national organizations involved with medical education. As the interests of the student body change, new groups are often formed. In the past few years, organizations or clubs have been established involving religious activity, nuclear disarmament, athletics, film, literature, photography, and chamber music. There are active men's and women's rugby teams, along with student participation in swimming, basketball, aerobics, soccer, squash, tennis, and weightlifting at or near the Medical College.

Alpha Omega Alpha.

Alpha Omega Alpha is a medical college honor society. Membership is based upon outstanding scholastic achievement in the Medical College curriculum. The Cornell chapter of A.O.A., organized in 1910, sponsors an annual visiting professorship and an annual lecture.

Members elected from the graduating class of 1988 were: Bradford A. Bottger, Joseph E. B. Burchenal, David L-W. Cheng, Matthew R. Caleb, Andrew J. Diamond, Richard S. Jennis, Andrew M. Lowy, Andrea M. Dobrenis, Mitchell D. Newmark, Karl A. Illig, Paul T. Rubery, Aaron P. Perlmutter, James K. Reed, Nina M. Taggart, Megan M. Terwilliger, Michael R. Zenn.

In addition, the following were elected junior members in A.O.A. based on their outstanding performance during their first two years in the Medical College: David M. Campanelli, James K. Roberts, Jesse Wagner, Howard L. Weiner.

American Medical Student Association (AMSA) is a national organization. There are fourteen national task forces concerned with areas such as International Health, Minority Affairs, Aging, and Adolescent Health. At Cornell, AMSA enables students to investigate areas of medicine not included in the curriculum through meetings and projects which have a direct impact on the community.

Medical Student Executive Council

The Medical Student Executive Council (MSEC) is the equivalent of student government at the Medical College. Composed of four elected representatives and the president of each class. MSEC acts as a liaison between administration and students to coordinate student activities and form student opinion. MSEC appoints student members to Faculty Councils and provides funding for a large number of student activities.

Office of Women in Medicine. The Office of Women in Medicine (OWIM) is an organization composed of women physicians, faculty members, hospital personnel, and students associated with Cornell University Medical College and its affiliated institutions. OWIM works closely with the Cornell branch of the American Medical Women's Association. The OWIM office is both a reference and casual meeting room for members. OWIM sponsors and co-sponsors a variety of events each year, including movies, speakers, and workshops dealing with women and health care.

Phi Delta Epsilon. A revitalized Alpha Chapter of this national fraternity, founded at Cornell early in the century, was organized in 1985. Phi Delta is active in community service, and serves as a clearinghouse for international projects.

Students for Equal Opportunity in Medicine. Students for Equal Opportunity in Medicine is an organization of minority students at Cornell University Medical College. The organization currently includes nationally recognized chapters of the Student National Medical Association (SNMA), the Boriqua Health Organization (BHO), and the National Chicano Health Organization. The goals of the organization are: to increase the recruitment and retention of Blacks, Latinos, and other underrepresented groups at the Medical College; to provide a forum in which issues relating to the aforementioned groups may be aired; and to plan and implement outreach programs in the neighboring black and Latino communities, such as health screenings and high school projects.

ALUMNI ASSOCIATION

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. The activities of the association include a biennial reunion and banquet, student and faculty parties and meetings, and panel discussions on topics of general interest. The association supports many student programs including career seminars, athletic activities and summer research opportunities through the David Barr Fellowship Program. Each class elects a representative to serve on the alumni association board of directors. In addition, the Alumni Quarterly is sent to all alumni, faculty members and students. The association maintains an office at 1305 York Avenue. An annual appeal for funds for the Medical College is made to members of the association.

President: Jack Richard '53
Vice-President: Lewis M. Drusin '64
Secretary: Gene Resnick '74
Treasurer: Dianne D. Aronian '72
Chairman, Medical College Fund:

Lewis M. Drusin '64 Editor, *Alumni Quarterly*: C. Richard Minick '60

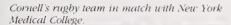
Directors: Diane Bloomfield '82

Lloyd R. Dropkin '70 Stephen Ettinghausen '78

Terry Hensle '68

Donald W. Hoskins '57 J. Ralph Macfarlane '59 Francis Perrone '50 Susan C. Stewart '66

Managing Director: Joan Steinbach







ADVANCEMENT AND GRADUATION

Qualifications

The evaluation of students for advancement from year to year involves objective criteria and subjective judgments similar to those employed in the admission process. To be considered for advancement, individuals must have satisfactorily completed all required medical college course work for that year and must demonstrate motivation, maturity, stability, sound judgment, a sense of responsibility, and good moral character. In addition to proper sensory perception and appropriate cognitive, motor, and organizational skills, students must display the ability to synthesize and apply knowledge, and possess other attributes deemed essential by the faculty to the making of a safe and effective physician.

The Medical College curriculum is divided into four successive academic years. At the end of each academic term, a student's performance in all required and elective courses is evaluated and recorded. The final grade in a course is determined by the appropriate department after evaluation of student performance in all aspects of the course work, including examinations.

At the conclusion of each academic year, a student's overall performance, based on the results of evaluations in all of the courses in the curriculum of that year, is reviewed by the Committee on Promotion and Graduation.

Dr. C. Everett Koop ('41), Surgeon General of the U.S., receives Alumni Award of Distinction from Dr. Frederick Martens ('57) at the 1988 Commencement.

Dismissal

Students may be dismissed for the following reasons: (1) failure to pass required course work or to remedy failures as provided in the Guidelines for Promotion and Graduation; (2) violation of the Code of Professional Conduct, which outlines the principles of academic integrity expected of every Cornell medical student; (3) a determination by the faculty, after an opportunity to be heard, of failure to meet the standards of fitness for medicine set forth in the section on qualifications for advancement and graduation. Violations of the Drug and Alcohol Policy of the Medical College will be reviewed to determine fitness for medicine as explained in the Student Handbook.

Graduation

The award of the degree of Doctor of Medicine attests to the individual's successful completion of the curriculum and qualification to practice the profession effectively and skillfully. The faculty does not believe that the degree can or should be awarded subject to any restrictions or modifications, and reserves the right to withhold the granting of a degree to any person whose ability to practice medicine safely and effectively is impaired. Graduation from Cornell University Medical College fulfills one of the requirements necessary to apply for a license as a physician in the various states. Most Cornell graduates, however, pursue further training.

Candidates for the degree of Doctor of Medicine must be at least 21 years old and be of good moral character. They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. All required work of the medical curriculum must be completed and all prescribed examinations passed. Every candidate for a degree must pay, or satisfactorily arrange to pay, all accounts due to the University at least ten days before Commencement.

The Family Education Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific consent of the student or graduate.

Any student or graduate may request that a transcript of his or her Medical College record be mailed to accredited hospitals and to educational or other recognized institutions as credentials in support of an application for a position or promotion. All transcripts are marked "confidential" and carry the instruction that they are not to be turned over to the candidate. This rule exists to avoid possible loss and fraudulent use of an official document of the Medical College. Students or alumni may send their requests to the Registrar, Office of Academic Affairs, Room C-118, Cornell University Medical College, 1300 York Avenue, New York, New York, 10021.

Examinations for Medical Licensure

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States. Certified students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by a majority of the state and federal territory licensing agencies and by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal governmental agency. For information, write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, PA 19104.

Receiving the Cornell Medical College hood from Dr. Peter Dineen ('47), Professor of Surgery.



FINANCIAL INFORMATION

Fees and Expenses

All fees for instruction and other charges are paid at the Student Accounting Office of the Medical College, Olin Hall, Room 230.

Initial Fees

Application fee. A nonrefundable charge of \$50 is made for reviewing each application.

Acceptance deposit. After being notified of their acceptance, admitted students are given a limited time (usually two weeks) to decide if they will enroll in the entering class. A longer period is given if students are waiting for financial aid information before deciding if they will enroll in the entering class. A student's name is placed on the class list only after the \$100 acceptance deposit is paid. The deposit is credited toward the tuition charge; it may be refunded if the student withdraws before June 15.

Tuition

Tuition for the academic year starting September, 1988, is \$17,100. Tuition is paid in two equal installments - one made by the first day of classes, the second by January 15, 1989.

Included in the tuition fee are the matriculation fee and charges for student health insurance and the student health service.

Any individual who owes money to the University will not be allowed to register or reregister in the University, receive a transcript of his or her record, have his or her academic credits certified, be granted a leave of absence, apply for or retain student housing, or have a degree certified.

Refund Policy

If a student terminates his or her Medical College registration by official leave of absence or withdrawal, tuition will be charged from the first day of the quarter in progress to the effective date of the leave of absence or withdrawal as recorded in the Office of Academic Affairs. No tuition for the quarter will be charged, however, if the effective date of the withdrawal or leave of absence is within the first six days of the quarter.

If the date of withdrawal or leave of absence is effective after the first six days of the quarter, tuition for that quarter will be retained in the following amount: 15 percent for a week or fraction of a week following the first six days; 30 percent for the second following week; third following week, 50 percent; fourth following week, 75 percent; fifth following week. 100 percent.

Books, Equipment, and Microscopes

The average cost of books, equipment and microscope rental is approximately \$1000 in the first year. Binocular microscopes are available for rental. Information will be furnished to each entering student before registration.

Financial Aid

Cornell is concerned about the high cost of medical education. The Medical College accepts students without regard for their financial status and is committed to assist them in meeting their expenses for the full four-year program. Financial aid resources at Cornell are, per student, among the largest of any American medical school. The college administers nearly one hundred scholarship and loan funds through the generosity of many alumni, friends and organizations. These funds are available through the income from endowments and annual gifts.

Financial aid is awarded only on the basis of demonstrated need, as determined by analysis of income and assets of students and their families. All students accepted to Cornell are considered to have exceptional merit; there are no special merit scholarships. To qualify for financial aid, students must provide information about parent's finances. Needs analysis for Cornell financial aid is undertaken by GAPSFAS, a national service used by most graduate and professional schools. Applications are filed annually with GAPSFAS, CN 6660, Princeton, NJ 08541-6660. Married students are expected to provide information on their spouse's income and assets. Changing circumstances are taken into account in each year's review, including other children in college, and parents' ages, retirement needs, and health

To be eligible for financial assistance at Cornell University Medical College, a student must be in good academic standing and making satisfactory progress according to the Guidelines for Promotion and Graduation of the Medical College, printed annually in the Student Handbook. The Financial Aid Committee comprised of faculty, administrators, and students, determines the year's student budgets and the mix of grants and loans. The budget for first-year students in 1988-1989, totalling \$24,900, includes: tuition, \$17,100; Olin Hall rent, \$2,250; food, \$2,440; books and equipment, \$1035; personal, \$2,075.

A student financial aid package includes family contribution, summer savings, and a portion of student assets. In 1988-1989, first-year students are expected to borrow \$7,500 from the federal guaranteed loan program and \$4,500 from Cornell's own subsidized loans. Any remaining deficit is met with a grant. Students who obtain outside scholarship aid reduce their required loans

Most loans are subsidized and deferred during residency training with long repayment periods. Because the Medical College does not wish a student's career to be influenced by debt, Cornell has developed a loan program involving reduced repayments and possible loan forgiveness for those graduates who go on to careers in lower paying fields such as research and academic medicine, in primary care practices in areas with shortages of physicians, or in developing countries. Another Cornell program involves substantial loan forgiveness in exchange for a commitment to serve after residency on the staff of the St. Mary's Hospital in Brooklyn, an affiliate of the Medical College.

Cornell's Office of Student Financial Aid provides comprehensive financial information to applicants as well as individual counseling throughout the student's education, including advice on budgeting and debt management. The office seeks ways to ease the financial burden on students by providing information on outside grants and loans, and summer, parttime, and spouse's employment.

Foreign Students

Foreign students who are not citizens or permanent residents of the United States are generally not eligible for Medical College financial aid because of federal restrictions on funds included in the aid program. Any foreign student who applies for admission will be accepted only under the following terms: on or before July 1 of the year of matriculation, the accepted student must deposit in an escrow account (to be established under terms acceptable to the school) funds sufficient to meet tuition charges for the total period of enrollment. Details of these requirements will be sent in letters of acceptance. Exceptions to these terms are made only in unusual circumstances when documented outside support is available.

Dr. Thomas Maack, Professor of Physiology and Biophysics in his laboratory.





DEPARTMENTS OF INSTRUCTION

ANESTHESIOLOGY

Professor Emeritus of Anesthesiology

J.F. Artusio. Jr., chairman, W.S. Howland

Clinical Professor Emeritus of Anesthesiology

B.E. Marbury

Professors of Anesthesiology

R.F. Bedford, C.E. Short, A. Van Poznak

Professor of Clinical Anesthesiology

M.J. Topkins

Associate Professor of Anesthesiology

B.W. Urban

Associate Professors of Clinical Anesthesiology

G.C. Carlon, V. Malhotra, M.G. Pratila, S-M. Rooney, D. D. Vuckovic, M. Tjeuw, F-S.F. Yao

Clinical Associate Professors of Anesthesiology

H.L. Erlanger, J. Y. Ngeow, K.V. Sanborn, P.F.R. Walker

Assistant Professors of Anesthesiolog

S.M. Barst, X.V. Bogaerts, O.E. Delvalle, D.P. Desiderio, R.H. Edmundson, L.R. Ferrari, S.A. Fiamengo, M.E. Fischer, F.M.F. Gadalla, P. Illner, S. Jain, S.R. Jalandoni, R.E. Kelly, H.D. Koff, A.C. Kolker, R.A. Kross, T.T. Kudlack, R.A. Leff, W.L. Marx, J.P. Ragasa, R.H. Rodman, E. Sia-Kho, A. C. Thorne, R. A. Veselis, M.D. Weibman

Dr. Rudolph Leibel, Associate Professor of Clinical Pediatrics and four time winner of the Elliott Hochstein award for excellence in teaching.

Clinical Assistant Professors of Anesthesiology

L.L. Balazs, G. Balint, R.G. Barile, I. Berlin, D. Borovac, G.Z. Brooks, G.G. Curtis, J.L. Fox, D.S.T. Green, J.T. Herbert, R.L. Kahn, A.F. Kass, R.C. Lin, E.L. Lobrin-Farcon, L.J. Maggio, M.B. Meyers, C.J. Militana, D.J. Nardi, C.K. Ong, T.J. Quinn, J.J. Roch, K.J. Rosenbaum, R.A. Rossi, C. Sanger, H. Sayegh, J. Schwartz, J.E. Shahmoon, N.E. Sharrock, L.D. Silver, N.K. Sudan, D.G. Susman, R.H. Taff, L.S. Turner, W.F. Urmey, J. Weingram, S.N. Westin, H.D. Wulfson, V. M. Zayas

Instructors in Anesthesiology

I.L. Concepcion, M.H. Dinner, J. Fong, G.S. Hartman, A.G. Messina, E. Recio-Pinto, R.L. Slepian

Clinical Instructors in Anesthesiology

R. Cesar, A.C.K. Cheng, P.H. Dalecki, H. Green, S. Gunasti, J.W. Konovitch, I.C. Lin, T.V. Miles, R.C. Natoli, J.P. Palma, H.K. Pinchot, M. Schnapp, H. Shifrin, J.E. Singer, A.T. Zimbard

Required Courses

SECOND YEAR

The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered, not only as depressants of the central nervous system, but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The department also assists in teaching about drugs that affect respiratory mechanisms. It participates in lectures, laboratory demonstrations, and student seminars.

THIRD YEAR

Anesthesiology is taught in seminar-discussion periods during the clerkship in surgery. The subjects covered are: cardiac and respiratory resuscitation, the medical care of the surgical patient, respiratory therapy, and the evaluation, diagnosis, and treatment of pain.

FOURTH YEAR CLERKSHIP

In the two week selective clerkship, mornings are spent in the operating room with an attending anesthesiologist, with fourth-year clerks participating in administration of clinical anesthesia, or in surgical I.C.U. either in The New York Hospital, Memorial Hospital or The Hospital for Special Surgery. Afternoon didactic lecture series include: specific medical student lectures, seminars with resident anesthesiologists and professors rounds.

Elective Options FOURTH YEAR

An elective clinical or research program is offered by the department to fourth-year students. Each student is assigned to an attending anesthesiologist. Students spend their time with the attending anesthesiologist, making preoperative visits, administering anesthesia, and in postoperative and recovery care. Emphasis is placed on respiratory physiology, therapy, and resuscitation. Progressive participation and responsibility is given to the student. A second clinical elective is offered in the treatment of pain by the use of nerve block techniques, transcutaneous stimulation and injection of trigger points for the treatment of myofascial pain. This experience encompasses The New York Hospital and Memorial Hospital in the differential diagnosis and care of patients with acute and chronic pain. A research elective can be arranged either at The New York Hospital or Memorial Hospital for individual students. This elective is essentially for non-Cornell students, but Cornell students will be accepted, but only as an additional month following the clerkship.

BIOCHEMISTRY

Professor Emeritus of Biochemistry

I.R. Rachele

Professors of Biochemistry

A. Meister, Israel Rogosin Professor of Biochemistry, chairman; A.L. Boskey, E.M.G. Breslow, O.W. Griffith, R.H. Haschemeyer, B.L. Horecker, A. Novogrodsky, A.S. Posner, A.L. Rubin, R.L. Soffer (medicine), K.H. Stenzel

Adjunct Professors of Biochemistry

C.Y. Lai, C. Monder (pediatrics), S. Udenfriend

Associate Professors of Biochemistry

D.P. Hajjar (pathology), R.R. Riggio, H.D. Robertson, M. Suthanthiran (medicine), S.S. Tate. D. Wellner

Associate Professors of Clinical Biochemistry

J.S. Cheigh, G.F. Fairclough, Jr., M. Fotino, J.D. Gass, J.F. Sullivan, L. Tapia (medicine)

Adjunct Associate Professors of Biochemistry

M. Eibl-Sebestyen, H. Gilder, J. Goldstein, J.M. Manning, K.R. Woods

Visiting Associate Professors of Biochemistry

A. Naganuma, R. Steinherz

Assistant Professors of Biochemistry

M.E. Burt (surgery), A.J.L. Cooper (neurology), J.C.K. Lai, T.S. Parker, J.C.L. Wang (medicine)

Visiting Assistant Professor of Biochemistry

C. Panneerselvam

Instructors in Biochemistry

M.E. Anderson, D.M. Levine, A.P. Seddon

Courses

Biochemistry Required course for all first-year medical students offered during the first and second quarters. First quarter lectures are: M, W, Th, F 9-10. Second quarter lectures are: M, W, Th 9-10; F 2-3. Group conferences are also held each week as follows: first quarter, F 10-1; second quarter, Th 2-5. Specific course prerequisites: bachelor's degree required. Responsible faculty member: O.W. Griffith.

Designed for medical and graduate students. The chief concern is with biomedical principles fundamental to medical problems. Basic biochemical information will be presented and integrated with selected nutritional and health problems of concern to physicians, and biomedical scientists by means of lectures, group conferences, and clinical discussions.

Topics covered in the course are: Chemical and physical properties of biomolecules, enzymology, molecular biology, metabolism of carbohydrates, lipids, amino acids, purines and pyrimidines. Special topics and assorted clinical problems are also presented. Emphasis is also

placed on relationships between abnormalities of molecular structure or metabolic pathways and disease processes. This course is also offered to students of the Graduate School of Medical Sciences and is required for graduate students who major or minor in Biochemistry. Various faculty members.

Advanced Biochemistry A course offered jointly by the faculties of the Medical College and Sloan-Kettering Divisions. The course consists of a series of lectures covering topics such as methods for the study of size and shape of macromolecules, molecular biology, information transfer, membrane structure and function, and other subjects of current research interests. These subjects will be taught at an advanced level with particular attention to contributions of recent research. Minimal prerequisite is the Biochemistry course (described above) or its equivalent. Third quarter. D. Wellner and staff.

Research in Biochemistry By arrangement with the chairman of the department.

Biochemistry for M.D.-Ph.D, Students This course will be given in tutorial format. Readings from review articles and primary research papers will be assigned for student/faculty discussion on topics selected to illustrate important principles and concepts of contemporary basic and medical biochemistry. Meets once a week during first and second quarters. S.S. Tate and faculties of the Medical College, Rockefeller University and the Sloan-Kettering Institute.

ELECTIVE OPTIONS

Fourth Year Opportunities for biochemical research on a variety of topics are offered to medical students during their fourth year.

CELL BIOLOGY AND ANATOMY

Professor Emeritus of Cell Biology and Anatomy

T.C. Rodman, R.C. Swan, Joseph C. Hinsey Professor Emeritus of Cell Biology and Anatomy

Professors of Cell Biology and Anatomy

D.A. Fischman, Harvey Klein Professor of Biomedical Sciences, chairman; J.M. Bedford (obstetrics and gynecology), D.C.Brooks, W.D. Hagamen, J.L. Sirlin

Professor of Clinical Cell Biology and Anatomy

A.E. Inglis (surgery)

Associate Professors of Cell Biology and Anatomy

R.F. Bachvarova, D.M. Bader, F.G. Girgis, J.M. Hefton (surgery), J.D. Pardee, E.J. Rodriguez-Boulan, J.C. Weber

Adjunct Associate Professor of Cell Biology and Anatomy

M.D. Hamburg

Visiting Associate Professor of Cell Biology and Anatomy

Y. Han

Assistant Professors of Cell Biology and Anatomy

A.M.C. Brown, M.V. Chao (medicine), D.J. Falcone (pathology), B.A. McGuire, B.V. Paynton, P.M. Pellicci (surgery), A.D. Saad, M. Teintze (medicine), P. Traktman, D.A. Wall

Visiting Assistant Professors of Cell Biology and Anatomy

T. Mikawa, S.J. Turkel

Instructor in Cell Biology and Anatomy

B.J. Zadeh (surgery)

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually asked in any analysis of a biological system is: What are its spatial relations, its forms, its configuration, and the time courses of development of these spatial relations? This is the substance, and this is the unique aspect of biological systems that constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is

provided with first-hand experience in some of the methods of structural analysis at submicroscopic levels and is encouraged to understand the principles and major limitations of most of the modern methods of cell biology and anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. However powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy is organized into three courses which are scheduled over all four quarters of the first year. Gross Anatomy is taught in a regional manner in the first two quarters. The Cell Biology-Microscopic Anatomy and Neuroscience courses are organized around structural and functional systems; they are taught in the second, third and fourth quarters. Each of these courses emphasizes laboratory participation under the direct supervision of a faculty member.

A major emphasis of this department is the focus of research at cellular and subcellular levels of organization, for it is apparent that modern therapeutics will ultimately be based on a comprehensive knowledge of cellular functions. Thus, several elective courses are available which probe gene expression, details of subcellular structure and function, and developmental biology.

Required Courses

FIRST YEAR

Cell Biology and Microscopic Anatomy. The structure of cells, their organization into tissues and organs, and basic concepts of how structure subserves function are considered. Concepts of differentiation and gene expression, which provides a basis for the understanding of the properties of cells and tissues, are presented. A comprehensive and systematic study of structure from the ultrastructural to the macroscopic level is pursued in the laboratory with emphasis on individual study of histological sections with the light microscope.

Gross Anatomy Regional anatomy is studied principally through dissection of the human body. Supplementing this are prosections by instructors, tutorial group discussions, and radiographic demonstrations.

Neuroscience The gross and microscopic structure of the brain and spinal cord is taught in an interdepartmental course in neuroscience in cooperation with the Departments of Neurology and Physiology. Lectures correlate the structure, function, and clinical significance of the principal concepts of the nervous system. Opportunity is provided in the laboratory for gross dissection of the preserved human brain and for the study of the serial histological sections of the human brain in three different planes.

Elective Offerings

Advanced Cell Biology Advanced courses in cell biology covering topics in membrane biology, cytoskeleton and cell motility, muscle cell biology, and aspects of nuclear structure and chromosome organization. The course will include lectures and group discussions of assigned research papers. Prerequisite: Completion or concurrent enrollment in microscopic anatomy, or previous background in basic cell biology. 2nd and 3rd quarters, 1988-89. Offered in alternate years, 1990-91. Dr. Wall and Staff.

Practicum in Electron Microscopy Lecture and laboratory course on the practical aspects of scanning and transmission electron microscopy. Topics to be covered include: Theory of TEM, SEM and STEM electron optics, fixation, thin section specimen preparation, scanning electron microscopy specimen preparation, negative staining, rotary shadowing, nucleic acid spreading, EM autoradiography, and immunohistochemistry. Prerequisites: Passing grade in microscopic anatomy/cell biology, and instructor approval. Eight students maximum enrollment. A \$300.00 laboratory fee will be required of all students. Fourth quarter, eleven weeks, 1988-89. Offered in alternate years, 1990-91. Dr. Fischman and Ms. Cohen-Gould.

Developmental Biology Principles of descriptive, experimental, and molecular developmental biology will be presented, using several animal systems as examples. Early development of the whole organism, and of cells, tissues, and organs will be considered. Prerequisites: microscopic anatomy, biochemistry. Limited to 15 students. 4th quarter, 1988-89. Offered in alternate years, 1990-91. Drs. Bachvarova and Bader.

Topics in Molecular Genetics The class will focus on key topics of molecular biology concerning gene structure and organization in prokaryotes and eukaryotes, chromosome

structure, DNA replication, protein synthesis and translational and transcriptional control. The use of genetic, biochemical, and molecular biological methods to study the questions experimentally will be covered in depth. Some topics of current interest such as immune diversity, oncogenes, and development will also be covered. The course will include an equal number of lectures and group discussions of representative research papers. Prerequisite: Background in biological sciences. Limited to 20 students. Offered in alternate years, first and second quarters, 1988-89. Drs. Chao and Traktman.

Research in Cell Biology and Anatomy.

Opportunities for laboratory research are available for one or more quarters under the tutelage of faculty members in the Department. Projects are available in cell motility and the cytoskeleton, membrane biology, viral replication, oncogenesis, developmental biology, neuroanatomy or computer science. Interested students should contact Dr. Fischman for further information.

MEDICINE

Professors Emeriti of Medicine

J.H. Burchenal, F. Daniels, Jr., J.E. Deitrick, S.J. Hadley, E.C. Lambertsen (nursing), E. Hugh Luckey, W.P. Laird Myers, R.E. Peterson, M.E. Shils, L. Thomas

Professor Emeritus of Clinical Medicine

R.S. Benua

Clinical Professors Emeriti of Medicine

E.J. Cohen, W.J. Eisenmenger, W.T. Foley, C.E. Forkner, Sr., R.H. Freyberg, W.H. Kammerer, B.H. Kean, W.J. Messinger, A.T. Milhorat, M.A. Payne, A.E. Timpanelli, I.S. Wright

Clinical Associate Professors Emeriti of Medicine

C.A. Berntsen, Jr., F.P. Coombs, A.S. Jacobson, J.H. Katz, G.L. Kauer, Jr., H. Koteen, W. C. Robbins, A.W. Seligmann, L. Strauss, M. Tulin

Professors of Medicine

R.G. Douglas, Jr., E. Hugh Luckey Distinguished Professor of Medicine, chairman; D. Armstrong, A.G. Bearn, D.V. Becker (radiology), J.R. Bertino, J.P. Blass (neurology), M.D Bogdonoff, J.S. Borer, Gladys and Roland Harriman Professor of Cardiovascular Medicine, R.G. Campbell, D.M. Carter, N. Chiorazzi, C.L.

Christian, Joseph P. Routh Professor of Rheumatic Diseases in Medicine, B.D. Clarkson, E.D. Crandall Bruce Webster Professor of Internal Medicine, R.L. Engle, Jr., Z.Y. Fuks (radiation oncology), M.C. Gershengorn, Abby Rockefeller Mauzé Distinguished Professor of Endocrinology in Medicine, G.W. Hambrick, Jr., P.C. Harpel, Jr., R.W. Houde, E.A. Jaffe, W.D. Johnson, Jr., L.J. Kagen, A. Kappas, J.H. Laragh, Hilda Altschul Master Professor of Medicine, M. Lipkin, M.D. Lockshin, A.J. Marcus, P.A. Marks, N.S. McNutt (pathology), J. Mendelsohn, H.W. Murray, R.L. Nachman, C. Nathan, Stanton Griffis Distinguished Medical Professor, A. Novogrodsky (biochemistry), H.F. Oettgen, T.G. Pickering, G.G. Reader (public health), M.M. Reidenberg (pharmacology), R.A. Rifkind, R.S. Rivlin, R.B. Roberts, D.A. Roe (nutrition), D.E. Rogers Walsh McDermott University Distinguished Professor of Medicine, A.L. Rubin (biochemistry), H. Ruchlin (economics), B. Safai, L. Scherr, David J. Greene Professor of Medicine, G.W. Siskind, R.L. Soffer, M. Sonenberg, K.H. Stenzel (biochemistry), P.E. Stokes (psychiatry), D.D. Thompson, B.B. Weksler, M.E. Weksler, Irving Sherwood Wright Professor of Geriatrics, D. Woodley, C.W. Young, D. Zakim, Vincent Astor Distinguished Professor of Medicine

Professors of Clinical Medicine

J.A. Barondess, Irene F. and Roy Psaty Distinguished Professor of Clinical Medicine, T.J. Degnan, A.W. Feinberg, J.G. Hayes, H. Klein, K. Mayer, A.H. Samiy (psychiatry), S.S. Scheidt, H.M. Thomas, III, R.J. Timberger, S.J. Winawer, A. Yagoda

Research Professor of Medicine

J.E. Sealey (physiology)

Clinical Professors of Medicine

E.L. Bodian, M. Coleman, J.W. Dougherty, M. Dworetzky, H.R. Erle, H. Goldin, M. Horwith, A.B. Ley, N.T. Macris, I. Nydick, F. S. Perrone, R.A.R. Pritchett, J. Richard, I. Rosenfeld, R.T. Silver, J.P. Smith, H. Steinberg, D.P. Torre, L.A. Wallis, J.F. Wittmer

Adjunct Professors of Medicine

E.H. Ahrens, Jr., M.H. Alderman, L.M. Aledort, C.W. Bardin, C.B. Chapman, Z.A. Cohn, L. Ellenbogen (nutrition), J. Hirsch, T.C. Jones, W.R. Levis, P.D. Marsden (public health), H. Rocha, C. Sanders, M. Siniscalco, A. Tomasz (microbiology), S. Ulick (pediatrics)

Associate Professors of Medicine

M. Andreeff, S.A. Atlas, R.S. Bockman, G.J. Bosl, M.E. Charlson, B.S. Danes, E.E. Deschner (radiobiology), R.B. Devereux, K.B. Elkon, S.M. Friedman, M. Gardy, R.J. Gralla, Y. Hirshaut, J.R. Hurley (radiology), J.L. Imperato-McGinley, M.H. Kaplan, D.P. Kelson,, R.P. Kimberly, T.K.C. King, I.L. Klein, P.D. Kligfield, I.A Kourides, J. Laurence, D.E. Matthews (biochemistry), J.B. Morrison, L. M. Resnick, A.B. Rifkind (pharmacology), R.R. Riggio (biochemistry), B.B. Shank (radiation oncology), P. Sherline, M. Suthanthiran, P. Vanamee, B.M. Wilkes, S.D.J. Yeh

Associate Professors of Clinical Medicine

D. Bajorunas, R.L. Braham, A.E. Brown, D.R. Budman, D.B. Budzko (diagnostic microbiology), E.S. Casper, J.S. Cheigh (biochemistry). H. E. Claremont, V.E. Currie, L.M. Drusin (public health). T.J. Fahey, Jr., J.D. Fisher, T.S. Gee, A. Gibofsky, R.B. Golbey, J.W.M. Gold, B.R. Gordon, B.J. Hartman, M. Isaacs, R.J. Kaufman, N.E. Kemeny, S.J. Kempin, T.E. Kiehn (diagnostic microbiology), F.D. Kitchin (ophthalmology), S.E. Krown, R.C. Kurtz, C.S. LaMonte, B.J. Lee, IH, R.D. Leeper, J. S. Lieberman, C.J. Lightdale, G.B. Magill, L.U Mailloux, D. Margouleff, J.A. Markenson, P.F. Miskovitz, A. Moore, D. Nori (radiation oncology), M. Ochoa, Jr., V.T. Padmanabhan, S.A. Paget, M.S. Pecker, R.A. Pizzarello, L.M. Reich, P.M. Reiser, S.D. Saal, P. Schulman, G.M. Shepherd, M. Shike, C. Steinberg, C.L. Storey-Johnson, D.E. Stover, D.J. Straus, J.F. Sullivan (biochemistry), L. Tapia, V.P. Vinciguerra, I. Zanzi

Associate Research Professors of Medicine

M.J. Broekman (biochemistry), G.A. Campbell (physiology), D.E. Drayer (chemistry), T. Francus (immunology), Y.T. Kim (immunology), W. Kreis, J.J. Preibisz

Clinical Associate Professors of Medicine

S. Advocate, W.A. Anderson, R.S. Ascheim, R.A. Baer, R.J. Baliff, L.T. Barnes, S.B. Baruch (physiology and biophysics) A.P. Belmont, K.J. Berenyi, M.R. Berenyi, M.A. Berkun. H. Bienenstock, R.T. Binford, Jr., N. Brachfeld. B.D. Brause, M.S. Brower, J.L. Brown, Jr., D.J. Cameron, D.B. Case, E.W-K. Cheng, J.P. Christodoulou, V.A. Cipollaro, R.P. Cohen, M.W. Conovitz, D.S. Cox, A.L. Edwards, A.N. Ehrlich, E. Ettinger, G.A. Falk, J.T. Flynn, A.H. Freiman, D.L. Globus, J.M. Glynn, B.H. Goldberg, C.H. Goodrich, G.W. Gorham, E.J.

Greenberg, S.J. Gulotta, R.A. Herrmann, R.B. Hochman, D.W. Hoskins, N.J. Isaacs, M.L. Jampol, S. Katz, D.S. Kent, M. Kurtz, M.J. Lacher, L.R. Lese, C.M. Lewis, M.G. Lewisohn, D.M. Libby, N.M. Luger, D.G.McKaba, A.W. Mead, D.G. Miller, W.J. Noble, M.W. Pasmantier, J. Pindyck, L.W. Raymond, T.N. Roberts, N. Rosenthal, R.A. Schaefer, L. Schuyler, E. Schwartz, S.D. Shappell, C. Sheard, R.L. Sherman, G.M. Silverman, L.S. Sonkin, R.T. Todaro, L.B. Turner, G.I. Wadler, C.G. Weiman, H.S. Weiss, A.O. Wells, J.M. Wertheim, A.L. Winston, M.J. Wolk

Adjunct Associate Professors of Medicine

R. Friedman, M.J. Kreek, R.G. Lahita (pharmacology), O.L. Laskin, L.J. Machlin (nutrition), R.H. Mertelsmann, S. Sassa, I.M. Spitz, I. Weitzman (microbiology)

Visiting Associate Professor of Medicine

G.J. Goodfield (biomedical science and social policy in medicine)

Assistant Professors of Medicine

K. Ales, S.L. Allen, O.P. Ameisen, L.J. Aronne, A.S. Asch, A.G. Bellucci, E. Berman, J.D. Blumenfeld, D.H. Bovbjerg (immunology), L. Brenner-Gati, R.L. Bronzo, M.J.F. Camargo, M.V. Chao (cell biology and anatomy), B.D. Charash, R. B. Cooper, M.K. Crow, A. J. Dannenberg, J. de la Harpe, P.J. Deutsch, A Ding, P. Dutta (nutrition), O.R. Etingin, M.P. Fanucchi, B.F. Farber, T.R. Fields, N. Flomenberg, S. H. Foster, R.A. Furie, J.E. Gabay, J.L. Gabrilove, E.R. Gaines, D.M. Gelmont, L.M. Gerber (epidemology), B.R. Gerling, A.E. Gharavi, I.S. Goldman, J. Gottridge, S.J. Green, W.R. Griffo, J.S. Groeger, S.C. Gulati, K.A. Hajjar (pediatrics), W.W. Hall, L.B. Harrison (radiation oncology). C. C. Hart, A.M. Herdan, E.M. Herrold, J.L. Ho, C.A. Hochreiter, J.P. Hollenberg, A.N. Houghton, I.M. Jacobson, G.D. James (physiology), C.E. Joyce, H.L. Katzeff, K-J. Kim, R.N. Kolesnick, M.G. Kris. B.S. Levine (nutrition), C.R. MacKenzie, N.M. Magid, S.K. Magid, L.R. Mandell (radiation oncology), S.J. Mann, S.J. Margulis, M. Markman, B. McCormick (radiation oncology). C. J. McDougall, M.J. McKinley, B.R. Meyer, D.H. Miller, I.J. Miller, B.D. Minsky (radiation oncology), R.H. Mirchandani, F.B. Muller, P.L. Myskowski, T. W. Nash, J.P. Nicholson, N. Noy. P.M. Okin, A.P. Olivieri, L.Y.C. Ong, L. Palmer, J.W. Pape, K.B. Pomerantz (physiology), D.N. Posnett, P.G. Prioleau, B.M. Rayson (physiology), B. Rigas, M.J. Roman, P.M. Romano, S.G.

Rosen, C.D. Rothermel (microbiology), J.T. Ruggiero, C. Russo, J.E. Salmon, A.E. Sama, R.L. Savillo, S.F. Scarlatta, H.I. Scher, M.J. Schiff, P.L. Schnall, M.P. Schori, T.L. Schreiber, M.W. Schuster, R. Schwab (immunology), A.R. Scott, A.W. Scotto, D.H. Shepp, R.L. Silverstein, R. Soave, P. Szabo (molecular biology), P. Taufield, M. Teintze (cell biology), J. Tepler, D.B-S. Tse (cell biology), V. Utermohlen (nutrition), A.J. Walle, D.C. Wallerson, C. A. Walters, J.B. Wallis, J.C.L. Wang, R.P. Warrell, Jr., A.M. Weinstein (physiology and biophysics), L.R. Weiselberg, G.S. Weissman, D.A. White, J. Yahalom (radiation oncology), B. E. Zola, M.A. Zullo

Assistant Professors of Clinical Medicine

P.A. Bluestone, C.D. Flombaum, T.B. Hakes, R.T. Mossey, D.J. Nelson, M.K.M. Pierri, M.B. Walsh

Clinical Assistant Professors of Medicine

H.E. Abel, R.R. Abel, J. Appelbaum, F.P. Arena, J.R. Bakke, B. Benjamin, A.J. Binder, B.J.R. Blom, D.S. Blumenthal, M.J. Bradford, R.G. Brayton, R.W. Brown, M.M. Chait, D.R. Chiarieri, B.H. Cohen, B.E. Cohen, D.E. Cohen, I.R. Cohen, M.L. Cohen, C.S. Connolly, L.B. Cooperman, L.R. Corn, J.A. Cramer, M.E. Cramer, B.A. Delli Bovi, M.T. Diamond, K. Dittmar, R.J. Dresdale, J.C. Dreyfus, III, J.A. Erlebacher, S. Farber, J. Feldschuh, K.B. Field, J.A. Finkbeiner, C.E. Forkner, Jr., J.E. Franklin, Jr., R.M. Fuchs, B. Gentin, E.R. Gillman, J.S. Gitlin, D. Gluck, H.L. Goldberg, J. Goldberg, S.M. Goldberg, M.J. Goldstein, J.H. Gordon, I.H. Gouterman, J. Greenspan, S.E. Greenstein, P.A. Hamlin, J.R. Harnes, E. Haughney, M. Heilbraun, E.I. Henry, A.C. Hill, E.R. Hoffer, J.S. Hong, I. Horowitz, M.L. Hundert, F.W. Iacobellis, B. Inkeles, L.A. Inra, C.I. Jarowski, Jr., M.K. Jason, H.H. Jay, S.L. Kellman, L. Klein, B.J. Klyde, L.S. Kryle, H. Kushner, P. Kuslansky, P.B. Lang, J.L. LaRosa, M.C. Larsen, R.E. Lee, S.D. Leidner, M. Lewin, E.S. Lichtenstein, J.A. Lopez-Ovejero, I.S. Lowenthal, M.R. Marciano, P. Marcus, P.L. Margulies, S.J. Marks, M.L. Masur, G.A. McLemore, Jr., S.E. McMahon, G.P. Mirrer, A.M. Mizrahi, E.C. Muss, J. Nagler, P. Narasimhan, R.R. Nenner, J.N. Nichols, D.J. Nicoll, M. Nydick, P.A. Orens, A.M. O'Shaughnessy, L.D. Pace, B.B. Park, M.C. Phillips, G.A. Piccione, H.B. Pollak, M.R. Post, A. Potor, I. Pravda, S.H. Rabinowitz, M.I. Relimar, G.D. Resnick, M. Rivelis, M.A. Robbins, A.M. Rochwager, J.S. Rodman, C.S. Rosen, A.S. Rosenberg, M.A. Rosenbluth, A.M.

Ross, J.M. Rubenstein, R. Sabet, N.S. Sadick, H.P. Saltzman, C.M. Samet, M.S. Scheer, P.C. Schwartz, K.P. Scileppi, R.C. Shah, H.N. Shapiro, S.R. Siegel, C. Smithen, A.G. Snart, L.M. Soletsky, H.A. Solomon, J.E. Sotelo, R.P. Stechel, R. Stern, R.L. Strauss, F.H. Streuli, R. Stritzler, M.J. Tabaee-Zadeh, M.L. Tapper, M.J. Tenenbaum, P.G. Tolins, F.A. Tomao, A.F. Tucci, T.I. Tyberg, R.J. Ulberg, L.J. Vorhaus, J.H. Weiss, K.A. Whelan, H.H. Whitman, III, M.L. Wiedman, D.J. Wolf, D.A. Zackson, M.J. Zema

Adjunct Assistant Professors of Medicine

A.K. Balin, M.J. Blutt, E.A. Brinton, W.T. Brown, M.A. Brownlee, G. Colucci, A.B. Covit, J.L. Data, H.R. Dettelbach (physiology), A. Ebrahimzadeh, D. Fong (microbiology), R.A. Galbraith, A.B. Gottlieb, D.L. Kodner (health policy), J.E. Levitt, J.P. Mooney, F.W. Price, S.G. Reed (microbiology), M. Rubin, F.S. Schwartz, M. Stephens, M.Y. Stoeckle

Adjunct Clinical Assistant Professor G.B. Leber

Visiting Assistant Professor of Medicine M. Volpe

Instructors in Medicine

A. M. Acosta, S. K. Bagaria, D.F. Bajorin, N. Bhardwaj, J.A. Blair, S.G. Blank, M. J. Bunk, R.Y. Chang, P.B. Chapman, E.K. Chartash, R.B. Cohen, I. Cunningham, E. Dmitrovsky, J.M. Feigert, A.O.S. Fels, J.L. Fernandez, B. Gansbacher, M. F. Giordano, R.S. Goldweit, H. E. Greenberg, D.C. Helfgott, A.D. Heller, B.L. Hempstead, J.L. Jacobs, S. Jairam, A.A. Jakubowski, K.R. Kafka, M. Kamen, B. Kazenoff, R.O. Kenet, J.E. Kolitz, D.E. Lebwohl, T. Lenz, Y. Li, S.M. Lichtman, R.L. Lubman, T.A. McCaffrey (cell biology), K. Offit, E.J. Parrish, B.W. Polsky, E. Ramos, B.S. Reichman, C. Rossakis, L.B. Saltz, D.L. Santini, D. Scheinberg, R. E. Schoen, S. Schwartzman, S.J. Shiff, L.A. Shookster, A.M. Spokojny, K.E. Squires, J-A. Suna, T.P. Szatrowski, J. Torre, M.C. Varghese, L.L. Weinstein, S. Welt, D.C. Young, J.W. Young, M.M. Zukowsky

Clinical Instructors in Medicine

A.L. Adler, A. Apostolopoulos, D.M. Appelbaum, G. Aprile, E.M. Aronow, R.W. Baker, M.A. Barocas, C.G. Baum, R.H. Blau, S.H. Blobstein, V.A. Brackett, K.H. Brand, W.J. Breen, D. Breidbart, W.J. Caccese, M.C. Cantor. F.A. Cervo, Y.A. Cestero, S.H. Charno, F.P.

Visiting Instructor in Medicine

H.C. Kim

A.R. Zaager

Educational Goals

The program for the Department of Medicine is based on a number of cardinal premises: 1) There is a minimal core of information, skills and understanding that must be assimilated regardless of the student's choice of career. 2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at the clinical and laboratory levels. 3) The scope and limitations of medicine are best revealed through the demands and responsibilities of patient care. 4) The need and privilege to provide sympathetic understanding and support to the patient and the patient's family are prerequisite to being a good physician.

A large number of options are open to those pursuing a career in medicine, a diversity that includes patient care, research, teaching, and administration. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities and needs. There is no preconceived image of an ideal graduate except that he or she be competent and content in the career choice, and be well prepared to adapt to myriad changes that will occur in the practice of medicine in the future. The program provides the student with certain fundamental concepts and skills that will allow thoughtful exploration and evaluation of career possibilities.

The growth and complexity of medical knowledge is proceeding at an remarkable pace. The very complexities - medical, legal, ethical, economic - involved in making medical decisions preclude using "cookbook" formulas or reliance on memorization. A more useful and rewarding approach depends on the development of problem-solving strategies. The ability to systematically analyze problems and to "ask the right questions" is as pertinent to clinical medicine as it is to research. Determining what information is needed to resolve the patient's problems is essential if one is to avoid the pitfalls that stem from an unselective reliance on technology. The goal is to enable the student to constructively examine and question the decisions made on his/her patients - and an ability which is the basis for all learning, present and future. The depth to which each student pursues the problem solving approach will vary from the study of the physical and emotional factors responsible for illness in a single patient to an investigation of a disorder at a fundamental level. Clearly this spirit of inquiry is essential to all areas of medicine. The program of the department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through their experience, students will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

Required Courses

FIRST YEAR

Introduction to Medicine This course is designed to introduce the student to a variety of major issues bearing on medicine, but which transcend individual specialties. Members of the faculty as well as invited speakers conduct a series of lecture presentations; these are followed by small group discussions with

tutors. These discussions are associated with review of pertinent literature in advance of group sessions. Among the issues considered are the nature of the doctor-patient relation, the needs of patients, the welfare of the dying patient, ethical problems in clinical care, special problems of the geriatric patient, cost constraints in medical care, the nature of innovation in medicine, and the evolution of the medical research and health care system. The basic aim of the course is to provide for the student an orientation to some of the major problem areas in medicine and to the functioning of the physician as well as other interested parties in relation to them.

SECOND YEAR

Physical Diagnosis The course is an intensive introduction to the basic bedside clinical skills, i.e., the taking of a medical history and the performance of a physical examination, with emphasis on the anatomic and physiologic principles underlying the important symptoms and signs encountered in clinical medicine. Lectures and demonstrations, supplemented by extensive use of audiovisual and electronic aids, form the didactic basis of the course: special attention is directed to the medical interview and the approach to the sick. Students are assigned in small groups to clinical tutors, with whom they refine their bedside skills in biweekly examination of inpatients under close tutorial supervision. Patient examinations are carried out at the Cornell cooperating hospitals: The New York Hospital, Memorial Hospital, the North Shore University Hospital and the Burke Rehabilitation Center.

Introduction to the Clinical Years This is an interdisciplinary course which is designed to ease the student's transition into the clinical years and to make him/her a more discriminating participant in clerkships. It introduces the student to the problem oriented approach and to the diverse strategies which physicians use to generate diagnoses, order and interpret tests/ procedures, and make decisions. Case studies are used to illustrate these methods and to examine the many other factors - legal, economic, ethical and psychological - which subtly and profoundly influence physician judgment.

In addition, the nature and the sources of the tensions that arise in the clinical years are explored and the means to recognize and manage them are discussed. Such topics include: 1) the inherent imprecision and uncertainty that exist in medicine, 2) the problem of observer variability, 3) the anxieties and concerns of the hospitalized patient, 4) the roles, responsibilities and interrelationships of the personnel involved in patient care and their impact on the student, 5) the personal stresses on the student and the effect on established relationships. Spouses, close friends and families are invited to attend these sessions.

The student is also given instruction in and the opportunity to practice basic techniques - CPR, blood drawing and insertion of intravenous lines. Lectures, panel discussions and workshops are employed.

THIRD YEAR

Clerkship Each student is assigned to the medical service of The New York Hospital and one of the Cornell cooperating hospitals for a period of twelve weeks. The objectives of the clerkship are: 1) to refine and strengthen the skills of history taking and physical exam; 2) to develop the processes required to analyze the patient's symptoms and signs and to propose differential diagnoses; and 3) to appreciate the uses and limitations of laboratory tests and procedures. The student is an integral member of the medical team that is responsible for the care of patients. The student obtains the patient's history, performs the physical examination and basic laboratory tests, and records the findings. The student's results and analysis of the clinical problems are reviewed and discussed with the house staff and in small student groups under the supervision of a tutor. The student actively participates in the continued care of the patient, in part to verify or alter his or her initial evaluation, but also to develop an appreciation of the unique relationship that exists between patient and physician. Weekly psychiatric liaison sessions explore the complexities of patient-physician relationships and the reactions of physicians, students and patients to stress, illness and death. In the last two weeks of the rotation, the student is given increased responsibility for both the assessment and management of his or her patients. These activities are supplemented by: 1) seminars that emphasize the approach to urgent and/or commonly encountered medical problems; 2) weekly rounds with the chief resident to review patients with "classical" diseases and/or physical findings; 3) weekly meetings with the chairman and with the individual division chiefs for educational purposes and as a means of becoming acquainted with the senior faculty.

FOURTH YEAR

Ambulatory Care Selective The objectives of this course are to: 1) obtain a more balanced

view of internal medicine by participating in ambulatory patient care; 2) develop a systematic approach to problem solving and decision making through a review and critical examination of a) the basic skills of history taking and physical exam; b) the reasoning and processes employed in diagnosis; c) the selection, analysis and limitations of laboratory tests and procedures; d) the factors and processes employed in making clinical decisions; e) the use of cost-effectiveness and its effect on medical practice; 3) develop the principles and strategies used in the pharmacological management of patients; 4) develop methods to efficiently obtain information and data from the literature; and 5) develop an approach and methods to critically analyze and assess medical literature. The course format includes patient care experience in The Cornell Medical Practice combined with seminars and didactic sessions that address the ways clinicians plan diagnostic and therapeutic strategies.

Elective Options

Over fifty electives are offered throughout the four years. The comprehensive program includes participation in laboratory or clinical research, or, if desired, further opportunities for in-house and ambulatory patient care. Each year the elective list is revised and can be found in the Fourth-Year Course Catalog.

MICROBIOLOGY

Professor Emeritus of Microbiology J.Y. Sugg

Professors of Microbiology

K.I. Berns, R.A. Rees Pritchett Professor of Microbiology, chairman; W.K. Holloman, W.M. O'Leary, L.B. Senterfit

Professor of Clinical Microbiology J. Hochstadt

Associate Professors of Microbiology

N.A. Brown (pediatrics), R.W. Dickerman, P.J. Edelson (pediatrics), D.H. Sussdorf

Associate Professor of Clinical Microbiology

R.F. D'Amato

Assistant Professors of Microbiology

F. Barany, A.M.C. Brown (cell biology and anatomy), E.S. Falck- Pedersen, M.D. Lusky, M.E. O'Donnell, C.D. Rothermel, P. Traktman (cell biology and anatomy)

Visiting Assistant Professor of Microbiology

M. Malkinson

Required Courses

SECOND YEAR

Microbiology and Introduction to Infectious Diseases. First Quarter. Laboratory work includes an introduction to the procedures used in studying microorganisms, various physical and biological manifestations of antigen-antibody reactions, a survey of microbial flora of the upper respiratory tract of healthy humans, and an intensive study of the causal agents of specific infections, including fungi, bacteria, rickettsiae, and viruses. The lectures are directed toward the development of basic concepts, particularly as they relate to microbial physiology, and host-parasite relationships, including immunologic mechanisms in infectious disease. Clinical correlations are designed to integrate the basic aspects of microbiology into the practice of medicine. Emphasized are the molecular bases of the etiology, pathogenesis, epidemiology, and prevention of infectious diseases. In discussion groups small numbers of students discuss papers from the original literature. Students also may carry out research in the Department of Microbiology under the guidance of individual faculty.

Immunology. Offered during the first quarter, this course introduces the molecular and cellular bases of the immune response. In the lectures, such fundamental concepts as immunologic diversity and specificity are related to genetic mechanisms governing the induction, regulation, and effector functions of the immune systems. The protection against environmental and internal challenges, such as microorganisms and tumors, mediated by specifically programmed effectors is contrasted with the pathological consequences of immune responsiveness, such as hypersensitivity and autoimmunity. Specific areas of immunology are explored in interactive small group sessions with faculty members. G.W. Siskind and D.H. Sussdorf, and invited discussants.

Elective Options

Completion of Microbiology and an Introduction to Infectious Diseases (or its equivalent) is a desirable prerequisite for elective work in microbiology.

Research in Microbiology. Offered all year. Can be done entirely in the Department of Microbiology or may involve another preclinical or clinical department. Hours to be arranged with a faculty sponsor. See the Announcement of the Graduate School of Medical Sciences.

Microbiology Seminar. Scheduled weekly. Topics in microbiology and infectious diseases are presented by visiting scientists from other institutions. D.H. Sussdorf.

Advanced Diagnostic Microbiology. Techniques of management and procedures used in a clinical microbiology laboratory. Emphasized are the isolation and rapid identification of organisms from various types of clinical specimans. Liberal use is made of clinical materials available through the diagnostic laboratories of The New York Hospital. Fourth quarter. Two lectures and two laboratories weekly. Dr. Senterfit.

Molecular Virology. A formal course in which major emphasis is placed on the basic mechanisms in the biology of all animal viruses, including RNA and DNA tumor viruses. The topics considered include virus structure and composition, assay of viruses and viral specific products, transcription of virus-specific proteins, assembly of viral particles, structural and functional alterations in viral-infected cells including transformation, pathogenesis of viral diseases, and viral genetics. Alternate years. R.M. Krug and K. Berns. Interdivisional course.

Clerkship in Diagnostic Microbiology. Training in diagnostic microbiology as it is practiced in a large hospital laboratory, using the facilities of the diagnostic microbiology laboratories of The New York Hospital. Any quarter. Dr. Senterfit.

Fourth Year

A variety of activities in study, research, and teaching is available to fourth-year students during their elective program of study. Included are:

Externship in Microbiology Teaching in Microbiology Research in Microbiology Clerkship in Diagnostic Microbiology Microbiology Seminar Dr. Sussdorf

Advanced Diagnostic Microbiology Dr. Senterfit

For detailed descriptions of these options, the student should consult the Fourth-Year Course Catalog.

NEUROLOGY

Professors of Neurology

F. Plum, Anne Parrish Titzell Professor of Neurology, chairman; H.R. Beresford, I.B. Black, Nathan Cummings Professor of Neurology, J.P. Blass, Winifred Masterson Burke Professor of Neurology, T.H. Joh (neurobiology), F.H. McDowell, Winifred Masterson Burke Professor of Rehabilitative Medicine, V.M. Pickel (neurobiology), J.B. Posner, W.A. Pulsinelli, D.J. Reis, George C. Cotzias Distinguished Professor of Neurology, W.R. Shapiro

Professor of Clinical Neurology

J.J. Caronna

Clinical Professor of Neurology

H. deC. Peterson

Associate Professors of Neurology

J. E. Adler, K.M. Foley, G.E. Gibson (biochemistry), H. Kutt, D.E. Levy, G.W. Pasternak, R.W. Price, D.A. Rottenberg, J.D. Victor, B.T. Volpe

Associate Professors of Clinical Neurology

Y. Frank, M.S. Horwich, S. Murthy Vishnubhakat, M.E. Olson, F.A. Petito, J.A. Shaefer, G.E. Solomon, P. Tsairis, D.F. Young

Associate Research Professors of Neurology

H. Baker, A.J.L. Cooper (biochemistry) C.F. Dreyfus (developmental neurology), J.Z. Ginos (biochemistry), L.M. Iacovitti (neurobiology), J. E. Ledoux (neurobiology), D.H. Park (neurobiology), D.A. Ruggiero (neurobiology), R.K.F. Sheu (biochemistry), G.N. Teitelman (neurobiology)

Clinical Associate Professors of Neurology

R.H. Coll, M.A. Green, T.C. Guthrie, J.T. Kessler, G.H. Klingon, I.D. Schlesinger, P.H. Zweifach (ophthalmology)

Assistant Professors of Neurology

R.S. Black, L.A. Burton (psychology), J.M. Cedarbaum, L.M. DeAngelis, V. Dhawan (physics), E.M. Diciccio-Bloom, M.E. Ehrlich, P.R. Ernsberger (neurobiology), M.I. Evinger

(neurobiology), A.L. Feliu (chemistry), B.W Hainline, M. Jacewicz, M.T. Jennings, R.D. Kovner (neuropsychology), J.C.K. Lai (biochemistry), R.S. Lasken (neurobiology), M.G. Malkin, J. Mast, M.P. Meeley (neurobiology), T.A. Milner (neurobiology), S.F. Morrison (neurobiology), R.D. Nass (pediatrics), N.M. Nealon, E. Perecman, C. Pollak (psychiatry), R.K. Portenov, M.J. Reding, R.S. Schoenfeldt, J.R. Shapiro (cell biology), J.J. Sidtis, A.C. Towle (neurobiology), D.R. Wagner (psychiatry), R.W. Walker, K.C. Wu (developmental neurology), A. Zemcov (bioengineering)

Clinical Assistant Professors of Neurology

R.H. Blanck, A.S. Cohen, M. Engel (pediatrics), I.C. Haimovic, E. Hirschenstein, D. Holzer, J. Keleman, H.O. Kotsoris, N. Mitra, S.M. Newman, D.M. Pietrucha, S. Rapoport, L. S. Schleifer, L.N. Travis, I.M. Turner, B.C. Wilson (neuropsychology)

Adjunct Assistant Professors of Neurology

S. E. Gandy, P. J. Lichtenfeld, R.G. Mackel (neurophysiology), N.L. Rosen (pediatrics), L. W. Tucker

Instructors in Neurology

V. Arango, J.M. Carroll (neurobiology), R. Giuliano (neurobiology), U.J. Kang

Clinical Instructors in Neurology

S.M. Newman, I.M. Turner

The department has three responsibilities: patient care, teaching, and research. The faculty supervises the care of patients with neurological diseases at The New York Hospital, Memorial Hospital, The Hospital for Special Surgery, and the North Shore University Hospital. This rich clinical exposure and the rewards of providing care to patients from many geographic and social backgrounds are shared by students and residents. The research laboratories and programs of the department are located within the Medical College and at the several hospitals. These laboratories conduct both fundamental and clinical research, seeking the basic answers to neurologic diseases and new ways to improve the delivery of treatment to patients. Research projects include the search for new chemicals to treat brain cancer, investigations into the mechanisms and treatment of brain tissue damage in stroke, the discovery and analysis of chemicals in the brain that cause and control the emotions and blood pressure, a search for

basic mechanisms causing epilepsy, and a fundamental examination of the causes and prevention of neurological birth defects. Several projects are directed at discovering basic mechanisms in Alzheimer's disease and possible prevention.

Two goals guide the teaching of students. One is to learn diagnosis and treatment by a thorough knowledge of the physiology and biochemistry of the major neurological diseases. The other is to transmit an initial understanding of the brain as an adaptive organ regulating man's internal milieu and outward behavior. Formal teaching begins in the second year and continues thereafter.

Required Courses

SECOND YEAR

An introductory course in neurological diagnosis is offered in the fourth quarter closely linked to the general physical diagnosis and pathophysiology courses. Lectures and seminar presentations describe the physiological basis of the neurological examination and abnormal signs and symptoms. Each week under an instructor's guidance, students examine patients with neurological disease.

THIRD YEAR

A one-month clinical clerkship is spent in the neurological pavilion of The New York Hospital, Memorial Hospital, or North Shore University Hospital. Students perform the initial work-up of patients, participate in rounds and conferences, and share in the care of patients under the close supervision of resident staff and tutors. Extensive reading is encouraged in order to develop knowledge about major neurological problems and to gain insight into still unsolved problems where research could make important contributions.

Elective Options

A variety of electives in either clinical work or laboratory research is available to fourth-year students. Dr. Plum provides an advanced seminar in behavioral topics. In-patient clerkships are available for full-time work in neurology at Memorial Hospital and in clinical neurology at The New York Hospital and North Shore University Hospital. Dr. McDowell provides a varied outpatient elective that guarantees the student exposure to almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

OBSTETRICS AND GYNECOLOGY

Professors Emeriti of Obstetrics and Gynecology

R.G. Douglas, Sr., E.E. Kramer, S. Silagi (cell genetics)

Professors Emeriti of Clinical Obstetrics and Gynecology

E.A. Graber, G.G. Hawks

Clinical Professors Emeriti of Obstetrics and Gynecology

R.W. Bonsnes (biochemistry), R.W. Gause, D.G. Johnson, J.N. Nathanson, G. Schaefer

Clinical Associate Professor Emeritus of Obstetrics and Gynecology

F.E. Lane

Professors of Obstetrics and Gynecology

W.J. Ledger, Given Foundation Professor of Obstetrics and Gynecology, chairman; P.A.McF. Auld (perinatal medicine), J.M. Bedford, Harold and Percy Uris Professor of Reproductive Biology, S.J. Birnbaum, A.N. Fenton, Edie and Marvin Schur Distinguished Professor of Obstetrics and Gynecology, F.F. Fuchs, S.A-R. Fuchs (reproductive biology), I.L. Lewis, Ir., B.B. Saxena (endocrinology), J. Sirlin (cell biology)

Professors of Clinical Obstetrics and Gynecology

T.A. Caputo, S. Chao, B.J. Sicuranza

Clinical Professors of Obstetrics and Gynecology

E.W. Davis, Jr., W.P. Given, F.W. Martens, R.A. Ruskin, F. Silverman, E.T. Steadman, W.J. Sweeney III

Adjunct Professor of Obstetrics and Gynecology

R.A. Chez

Associate Professors of Obstetrics and Gynecology

A.S. Berkeley, R.A. Bronson, F.A. Chervenak, M.L. Druzin, R.G. Harper (perinatal medicine), W.J. Hoskins, W.B. Jones, P. Rathnam (endocrinology), D.L. Rosenfeld, S.S. Witkin (immunology)

Associate Professors of Clinical Obstetrics and Gynecology

L.L. Cederqvist, J.J. Rasweiler, IV (reproductive biology), A. Toth

Clinical Associate Professors of Obstetrics and Gynecology

J.M. Astrachan (psychiatry), M.I. Buchman, R.M. Caplan, J.G. Davis, B.M. Garfinkle, S.T. Horowitz, N.M. Luger (medicine), V.F. Mastrota, J.S. Rienzo, D.J. Rothe, S.F. Ryan, E.D. Schwartz, W.D. Walden, R.E. Wieche

Adjunct Associate Professor of Obstetrics and Gynecology

L.B. McCullough (ethics)

Assistant Professors of Obstetrics and Gynecology

R.A. Boothby, I. N. Cholst, O.K. Davis, T. G. Edersheim, M.A. Goldman (radiology), M.J. Graf, J.M. Hutson, A.A. Kessler, J.L. Lovecchio, B.V. Paynton (reproductive biology), K. Rawlinson, S.C. Rubin, M. Singh, P. Taufield (medicine), Y.S. Thornton, J.P. Willner (genetics)

Assistant Professors of Clinical Obstetrics and Gynecology

S. Dittmar, G.M. Scholl

Clinical Assistant Professors of Obstetrics and Gynecology

R.G. Armbruster, S.L. Bednoff, A. Brockunier, G.Z. Brooks (anesthesiology), P.J. Concannon, R.J. Derman, V. DuVigneaud, Jr., G. Farahani, A.J. Felice, B. Garfinkel, W. Gladstone, M. Greenberg, A. Heltai, D.F. James, S. Kahner, R.E. Kaye, E.Y. Krim, E.O. Kubec, P. Mazzarella, E.K. Mok, B.N. Nathanson, G.G. Panter, Z.I. Saary, S.J. Siegel, M.J. Strongin, F. Surur, K. Vasudeva

Adjunct Assistant Professors of Obstetrics and Gynecology

E. Hakim-Elahi, G.C. Isaacson (anatomy)

Instructor of Obstetrics and Gynecology D.M. Roth

Clinical Instructors of Obstetrics and Gynecology

P.Y. Allen, L.D. Applegarth (psychology), T.J. Armbruster, S.H. Bailey, E. Bellucci, L.A. Benedict, R.M. Bernstein, V. Boodaghians, A.J. Borg, A.T. Bozza, P.A. Bresnick, A.T. Carlon, F. Chuy, P. Conrad, K.A. Cox, L.E. Cutler, S.M. Degann, M. Eichler, G.B. Feldman, N. Fidel, J. Finkelstein, R.J. Fitzgerald, H.F. Gardstein, Jr., M. Gubernick, M.A. Harris, R.D. Herzog, L.J. Iandoli, J. Jacob, E. Jacobson, P.E. Karafiol, G. Kaufman, J.L. Kent, H.J. Kraft, N.B. Lebowitz, L.J. Lissak, J.W. Malkary, H.S. Marchbein, R.N. Melnick, E. Mohandes, A. Ness, W.B. Paley, J.I. Paris, H.K. Prince, R.T. Puckett, T. Rifkin, D. Rothbaum, R.I. Sassoon, I.E. Schwab, S.M. Seidman, A.S. Sherwin, S.R. Sherwin, B.S. Shulman, J. Spiegel, M. Toth, R. Trongone, D.B. Weinstein, E. Weisfogel

Visiting Instructor of Obstetrics and Gynecology

A.J. Ferrier

Required Courses

SECOND YEAR

Orientation and Introduction to Gynecological Examination During the last quarter of the second year, one three-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Films and models for training in pelvic examination are presented.

THIRD YEAR

Introduction to Clinical Obstetrics and Gynecology This course combines theoretical instruction with clinical experience in obstetrics and gynecology. There are lectures on the core curriculum by the teaching staff, as well as assignment of the students to obstetrical and gynecological teams. Exposure to patient care will be offered under the direct supervision of the attending physicians and the resident staff.

Some students will be assigned to North Shore University Hospital, with the majority remaining at the New York Lying-In Hospital. Those at Lying-In Hospital will complete part of their clerkship at Catholic Medical Center and the LaGuardia Hospital where additional student obstetrical experience is available.

At the conclusion of the course, an evaluation of the student will be based on a written examination, an oral examination, and evaluation of the student's work on the clinical service. This information will be available to the student on request.

Elective Options

A full program of fourth-year electives is offered in the department, including advanced training, work in specialized areas of obstetrics and gynecology, and a variety of opportunities to participate in ongoing laboratory research. These electives are described in detail in the Fourth Year Course Catalog.

OPHTHALMOLOGY

Clinical Professor Emeritus of Ophthalmology

D.M. Shafer

Professors of Ophthalmology

D.J. Coleman, John Milton McLean Professor of Ophthalmology, chairman; R.M. Ellsworth, H.A. Lincoff

Professors of Clinical Ophthalmology

W.C. Cooper, T. Iwamoto, D. Paton

Clinical Professors of Ophthalmology

D.H. Abramson, I.H. Kaufman, W.L. Peretz. P.H. Zweifach

Adjunct Professor of Ophthalmology

F.L. Lizzi (ophthalmic physics)

Adjunct Professors of Clinical Ophthalmology

I. Kreissig, R.C. Troutman

Associate Professor of Ophthalmology

S. Chang

Associate Professors of Clinical Ophthalmology

F.D. Kitchin, S. Packer, M. Yablonski

Clinical Associate Professors of Ophthalmology

S.E. Bloomfield, T.D. Cherubini, L.S. Harris, D.B. Karlin, P. Laino, A.E. Mamelok, R.S. Muchnick, H.D. Perry, J. Schutz, M.B. Starr, S.R. Veronneau

Assistant Professors of Ophthalmology

M-H. Heinemann, H-Z. Lin, B.S. Pinchoff, C.W. Roberts, P.D. Smith, R.A. Weiss

Clinical Assistant Professors of Ophthalmology

D.D. Aronian, S.E. Brodie, Y.L. Fisher, P.F. Garber, L.P. Goldberg, L.C. Gordonson, J.E. Gurland, Y. Kahanowicz, A.D. King, N.B. Medow, P.M. Odell, D.B. Pearce, T.A. Poole, P.L. Schwartz, J.L. Sigelman, R.R. Strome, W.G. Whitmore

Adjunct Assistant Professors of Ophthalmology

V.P. DeLuise, R.W. Rowe (medical physics), L.M. Wilcox, Jr.

Adjunct Clinical Assistant Professor

D.M. Fastenberg

Instructors in Ophthalmology

P.T. Finger, G.K. Harmon, M.J. Rondeau

Clinical Instructors in Ophthalmology

B.M. Belgorod, J.A. Blanco, J.P. Brennan, A.W. Danyluk, E. Donnenfeld, M. Ehrenberg, S.H. Greenstein, M.R. Krauss, R.F. Marks, R.F. Munsch, K.S. Stern, T.P. Sullivan, J.W. Talbot, D.J. Yimoyines

Required Courses

SECOND YEAR

Instruction in ophthalmology begins as a part of physical diagnosis instruction in the fourth quarter of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

THIRD YEAR

During the third year, the class is divided into eight groups that participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology. The entire series offers instruction in the most frequently encountered diseases of the eye.

Third-year students are offered an externship in ophthalmology as part of the surgical curriculum.

Elective Options

FOURTH YEAR

Two fourth-year students per module can participate in the elective period. During their modules, they examine patients hospitalized for surgery and review the cases with attending ophthalmologists. The student then observes the actual surgery and attends teaching rounds with the resident and attending staff who present interesting and problem cases for detailed review and discussion.

In addition, electives are available for students who have completed the third-year externship. These include the ophthalmic specialties such as oncology, vitreous-retina and neuroophthalmology. A research elective in one of the ongoing departmental programs is also available.

OTORHINOLARYNGOLOGY

Professor Emeritus of Otorhinolaryngology J.A. Moore

Professor of Clinical Otorhinolaryngology R.B. Sessions

Clinical Professor of Otorhinolaryngology S.C. Parisier

Associate Professor of Clinical Otorhinolaryngology

W.S. Schley, Acting Chairman

Clinical Associate Professors of Otorhinolaryngology

W.M. Glass, K.F. Mattucci, N.J. Pastorek

Assistant Professors of Otorhinolaryngology

T.C. McLure, G.J. Noel (pediatrics), R.F. Ward

Clinical Assistant Professors of Otorhinolaryngology

V.J. Anand, B. Campbell, L.R. Dropkin, D.R. Edelstein, W.F. Flynn, E.C. Greenfield, M. Ingerman, A. Katz, W.F. Robbett, M. Setzen, L.J. Shemen, R. C. Wang

Adjunct Assistant Professor of Otorhinolaryngology

M.B. Kramer (audiology)

Clinical Instructors in Otorhinolaryngology

A. Degennaro, D.L. Kent, I.C. Kho, S.G. Nodelman

Required Courses

SECOND YEAR

One session is provided in otorhinolaryngologic problems as a part of the course in physical diagnosis.

THIRD YEAR

The third year is divided into four terms. The students attend a "mini-course" in Otorhinolaryngology that is presented over five consecutive mornings from 8:00-12:00. Lectures are given each morning by a member of the attending staff. The students gain experience in otorhinolaryngology by doing a physical examination on each other.

Elective Options

FOURTH YEAR

Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of one. Additional modules may be taken under special circumstances. Full-time attendance is required. During the clerkship, the student's time is divided between duty on the ward, in the otorhinolaryngology outpatient clinic and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff and has the opportunity to observe various otorhinolaryngologic surgical procedures in the operating room. The student also attends the weekly and monthly conferences.

Prerequisite: courses in the second and third years. The advisor to students planning this fourth-year elective is Dr. Lloyd Dropkin.

PATHOLOGY

Professor Emeritus of Pathology

J.G. Kidd

Professors Emeriti of Clinical Pathology

A. Kellner, E.E. Kramer (obstetrics and gynecology)

Professors of Pathology

J.T. Ellis, David D. Thompson Professor of Pathology, chairman; D.R. Alonso, C.G. Becker, J.D. Broome, P.G. Bullough, R.S.K. Chaganti (genetics), S.I. Hajdu, A.G. Huvos, J.V. Klavins, P.H. Lieberman, N.S. McNutt, M.R. Melamed, R.C. Mellors, C.R. Minick, C.K. Petito, P.P. Rosen, C.A. Santos-Buch, L.B. Senterfit (microbiology), S.S. Sternberg

Professors of Clinical Pathology

S. Gross, J.A. Mouradian, T. Sun, C.F.W. Wolf

Adjunct Professors of Pathology

E.M. Gross, L.H. Sobin

Adjunct Clinical Professor of Pathology

F.A. Jakobiec

Visiting Professor of Pathology

P.J. Fitzgerald

Associate Professors of Pathology

R.A. Erlandson, D.P. Hajjar, F.W. Quimby, J.M. Woodruff

Associate Professors of Clinical Pathology

E.P. Bassett, E.L. Coffey, Jr., G.F. Fairclough Jr., (biochemistry), E.I. Kahn, D.D. Myers (comparative), M. Oka, M. Susin

Clinical Associate Professor of Pathology

A.M. Prince

Adjunct Associate Professors of Pathology

Y-M. Rho, I. Weitzman (medicine)

Assistant Professors of Pathology

M.L. Alonso, J.B. Amberson, B. M. Atkinson, M. Bansal, E.J. Baron, J.P. Brody, B. Chamides, Q. Chess, Y.T. Cho, E.F. DiCarlo, D.J. Falcone, P.M. Farmer, D.A. Filippa, A. Firpo-Betancourt, T.A. Godwin, S.C. Jhanwar (genetics), M.M. Khine, M.L.S. Magid, D.D. Myers, H.T. Nguyen (comparative pathology), G.W. Niedt, R. G. Pergolizzi, P. Peterson, S.F. Pochron, P.G. Prioleau (medicine), P.A. Remigio, P.E. Saigo, D.S. Schron, T. Simmons, A.M. Strupp, C.D. Urmacher, M.B. Zaman

Assistant Professor of Clinical Pathology I.H. Koizumi

Clinical Assistant Professors of Pathology

V.M. Donovan, M.J. Ferenc, P.M. Fishman, G.W. Harrison, C.L. Honig, R.D. Kalter

Adjunct Assistant Professor of Pathology W.A. Muller

Instructors in Pathology

A. Acosta (medicine), R. J. Cote, G.A. Evans, L.-W. Ko, N.F. Lapi

Instructor in Clinical Pathology

U.C. Ruder

Facilities

The Department of Pathology occupies two floors of the central part of the college building, located above the library and in immediate contact with the hospital. Teaching is largely concentrated on the third floor where the autopsy room and demonstration room for pathological anatomy are located. Classrooms for microscopy are situated on the second floor. The third and fourth floors also contain unit laboratories for staff members and graduate students and for technical preparation.

The postmortem services of The New York Hospital, Hospital for Special Surgery, Rockefeller Hospital, and the Westchester Division afford abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies at The New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

Required Courses

SECOND YEAR

Pathology and Pathophysiology First, second and third quarters of the second year.

Placed at the interface between the basic sciences and the beginning of the clinical curriculum, the course is a comprehensive study of the structural and functional alterations caused by disease. It starts with an introduction of the principles of general pathology and the basic mechanisms of disease including cell injury and death, inflammation, thrombosis, carcinogenesis and immunopathology. This is followed by the study of the diseases that affect the various organ systems from the etiologic, pathogenetic, structural and functional standpoints and including elements of clinical and laboratory diagnosis. Clinico-pathologic correlations are emphasized throughout the course which is taught with the collaboration of the Departments of Medicine, Pediatrics, Surgery, Neurology, Obstetrics and Gynecology, Ophthalmology and Otorhinolaryngology.

A major strength of the course is its emphasis on small group teaching. This takes four different formats: 1) Microscopic laboratory where students review histologic slides representative of major disease processes, formulate diagnoses, and correlate microscopic findings with clinical signs and symptoms; 2) Gross laboratory where students examine actual pathologic specimens under the supervision of a faculty member; 3) Pathophysiology exercise where students analyze case histories including diagnostic and pathogenetic considerations under the guidance of a clinical faculty member; and 4) Reviews where a pathologist and a clinician challenge students with questions pertaining to subject matter covered on the preceding teaching module. These various formats emphasize problem solving and conceptual thinking by stimulating the student to formulate differential diagnoses and clinico-pathologic correlations.

Three microcomputer teaching laboratories serve as adjunct facilities for students to review course material, take quizzes and study case histories in preparation for the weekly clinicopathologic conferences. The laboratories are equipped with eighteen workstations each consisting of a MacIntosh computer, a color video monitor and a video disk player for the display of illustrations.

Clinical Pathological Conferences These conferences are held in cooperation with the staffs of the clinical departments of the hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of disease are correlated with changes found at autopsy.

PEDIATRICS

Clinical Professors Emeriti of Pediatrics

L. Baumgartner (public health), P.F. DeGara, J.Q. Haralambie, M.I. Levine, I.H. Mauss

Clinical Associate Professors Emeriti of Pediatrics

C.H. Bauer, O.E. Billo

Professors of Pediatrics

M.I. New, Harold and Percy Uris Professor of Pediatric Endocrinology and Metabolism, chairman; P.A.McF. Auld, K.I. Berns (microbiology), K.H. Ehlers, M.A. Engle, Stavros S Niarchos Professor of Pediatric Cardiology, S.B. Friedman, M.W. Hilgartner, Harold Weill Professor of Pediatric Hematology, J.A. Kochen, A.R. Levin, F. Lifshitz, W.W. McCrory, U. Muller-Eberhard, M.L. Murphy, R.J. O'Reilly, M.C. Rattazzi, S.F. Redo (surgery), T. Shapiro (psychiatry), M. Silverberg, Jack Hausman Professor of Pediatrics, C.T.C. Tan. R.A. Wapnir (biochemistry), N. Wollner-Sternberg

Professors of Clinical Pediatrics

F. Daum, P. Konig, F.N. Marshall, P.H. Winchester (radiology)

Clinical Professors of Pediatrics

L.1. Ehrlich, J.L. German, 111, R.J. Haggerty, G.M. Owen, H. deC. Peterson (neurology), 1. Rappaport, L. Salk (psychology), A.L. Scherzer, D. 1. Smith

Adjunct Professors of Pediatrics

M.A.B. deSousa, J. Lederberg (genetics), C. Monder (biochemistry), R.J. Slater, S. Ulick

Associate Professors of Pediatrics

P.W. Brill (radiology), N.A. Brown, J.B. Bussel, P.J. Edelson, S.E. Fisher, R.G. Harper, A.N. Krauss, T.J.B. Lehman, S.G. Pahwa, W. Spivak, S. Teichberg (cell biology), P.C. White

Associate Professors of Clinical Pediatrics

H.W. Aiges. R.A. Boxer. A.E. Brown (medicine), S. W. Burke (surgery), M. Chandra, J.G. Davis, J.J. Ferry Jr., P.F. Fort, W.W. Frayer, J.M. Gertner, F. Ghavimi, P.J.V. Giardina, A.A. Klein, M.A. LaCorte, R.L. Leibel, A. M. Marks, T.J. Marr, M.I. McVicar, P.A. Meyers, R.D. Nass, J.E. O'Loughlin, 1.E. Redlener, 1.K. Rosner, C.G. Sia, S. Singh, A.E. Slonim, G.E. Solomon (neurology), L.J. Steinherz, P.G. Steinherz

Associate Research Professors

R.W. Grady (pharmacology), H. Liem (biochemistry)

Clinical Associate Professors of Pediatrics

R.R. Bass, M. Boris, W.R. Brown, Jr., B.S. Caterinicchio, L.I. Charash, A.P. DeMayo, A.N. Eden, M. Engel (neurology), Z.F. Fischbarg, D. Goldberg, R.M. Greenwald, M.T. Grossi, A.C. Hoffman, R.I. Lopez, V.C. Mitty, K. Neumann, B.L. New (psychiatry), R.F. Notterman, M. Orange, M.S. Rosh, W.T. Seed, J. Soloway

Adjunct Associate Professors of Pediatrics

H. Gilder (biochemistry), H. Koenig

Adjunct Associate Professor of Clinical Pediatrics

M.S. Schiller

Assistant Professors of Pediatrics

C.A. Avery, D.E. Bloomfield, M.A. Boeck, J.A. Brochstein, B.I. Caparros, K-C. Cheng (cell biology), S. Cunningham-Rundles (immunology), G.E. Eddey, M.E. Ehrlich (neurology), J.C. Fagan, N. Fatica, M.M. Fisher, J.P. Gold (surgery), S.E. Gottlieb, E.F. Grabowski, W.B. Greenfield, B. M. Greenwald, K.A. Hajjar, S.P. Herman (psychiatry), M.T. Jennings (neurology), V.L. Johnson, N.A. Kernan, D.B. Kessler, E.T. Khuri, D.A. Koch (psychology), S.R. Kumar, J. Laver, J. Levenbrown, J. Markowitz, J. Mast, G.J. Noel, D.A. Notterman, M.E. Olson (neurology), M.T. Pugliese, G.S. Ross (psychology), 1. Sahdev, D.A.L. Sanders, J.S. Schlessel, E.T. Schubert (biochemistry), M. Schulman, R. A. Scott (medicine), M., Shaham (genetics), C.A. Slater, B. Snyder, M.S. Snyder, P.W. Speiser, P. Tarshish, S.S. Usmani, R.W. Walker (neurology), M.J. Ward (psychology), M.E. Weinblatt, D.J. Weinstock, J. D. Wilkinson

Assistant Professor of Clinical Pediatrics

E.G. Lipper

Clinical Assistant Professors of Pediatrics

J.S. Alexander, P.J. Axel, F.S. Barash, R.M. Brilliant. J.L. Brown (psychiatry), R.E. Caprio, Y.M.K. Chiu, R.N. Corriel, G.T. Dalrymple, E.J. Dilello, J.G. Easton, G.T. Edis, M.W. Elice, M.P. Fitzgerald, D.B. Gareen, E.G. Georgatos, L.G. Geotes, W.M. Gerba, M.L. Gilbert, L.T. Goslee, E.F. Gould, A. Grassi, A.S. Greenberg, A.L. Haber, M. Harwin, M.S. Heitler, J. Horowitz, P. Horowitz, H.F. Huebner (psychiatry), S.S. Hyman, P.J. Inguagiato, S. Isaacson, H. Isenberg, P.R. Joseph, R.L. Kandell, H.L. Kantor, S.H. Kaplan, A. Koutras, S.R. LaSala, U. Lavy, M. Levy, R.H. Lieberman, D. Lief-Dienstag, S.B. Markovics, R.A. Massih, E.M. McCarthy, R.D.

McLaughlin, W.J. Mesibov, L.H. Miller A.J. Mistretta, M.H. Moss, S.D. Olicker, D.M. Pietrucha (neurology), G.D. Reddy, R.H. Reiman, A.S. Rosenblum, G.W. Rutherford III, C. Sekaran, J. Shein, H. Silver, H.J. Simon, D.R. Skog, M. Small, G.M. Spielman, J. Steckelman, R. Stein, B.J. Stewart, E. Stoner, J.A. Szatkowski, M.Y.Y. Tsai, J.P. Viscardi, R. Waldbaum, S. Weindorf, B.X. Weinstein, J.P. Willner (obstetrics and gynecology), H.I. Wolfe, V. M. Zayas (anesthesiology), H.J. Zirin

Adjunct Assistant Professors of Pediatrics

A.D. Auerbach (genetics), M. Bestak, A.E. Dyson, L.C. Hudgins, R.H. Lustig, D.M. Namerow, R. Rapaport, N.L. Rosen, E.A. Schmalzer

Instructors in Pediatrics

K.A. Burke, C.R. Carpenzano, J.G. LeClair (psychology), D.T. Costakos, K.A. Crowley, I. Dieudonne-Eid, M.H. Dinner (anesthesiology), A. DiMaio-Hunter, M.K. Downey, D. Esernio-Jenssen, A.P. Gillio, C. Hift, A. Jain, P.I. Karl, B.H. Kushner, L. Pascoe (genetics), E.S-K. Poon, A.S. Redner, M. Rosenbaum, H.B. Slade, T.N. Small, R.M. Spinazzola, P. Varga, M.M. Zerah

Clinical Instructors in Pediatrics

F. Aguilar, S.J. Altman, J.A. Amer, R. Amoona, P.M. Baker, I.A. Bartels, M. Beer, N. Berkowitz, C.J. Bryer, W.R. Bungarz, K.K. Cheung, A. Chusid, S.A. Cohen, D. Cruvant, B.A. Dash, I. Enscoe, J.I. Espinoza, K.A. Geraci-Ciaerdullo, M.A. Giuliano, D.M. Gocs, L.J. Good, E.A. Greenfield, P.A. Hampton, K.J. Higgins, A.C. Holtzman, T. Javaid, E. M.L. Jonisch, A.K. Josen, J.L. Kahan, S. Kaplan, K.J. Karlsrud, M.M. Khadavi, Y.M. Khakoo, B.A. Laboard, A. Lacoius-Petruccelli, P.S. Landau, P.B. Lang (medicine), H.T. Lantz, N.L. Lau, B.J. Leftkowitz, M.L. Lewin, I.M. Matos-Rivera, R.G. Merkler, M. Mir, M-J.L. Moises, P. Naysan, M.F. Newman-Cedar, P.D. Oppenheimer, R.L. Paltzik (medicine), E.A. Pytlak, A.N. Reves, R.J. Rodrigues, R. Rodriguez, S. Rosenfeld, M. Salemi, C.R. Screnci, A.A. Serdakowska, B.A. Sheppard, F. M.Siegel-Stein, B.S. Slater, G. Slepowitz, B. Softness, L. Spiegel (psychiatry), P.S. Steinfeld, M.A. Stevens, F.M. Suser, I.B. Toback, M.G. Versfelt (psychiatry), E.B. Visconti, A. Weiss-Harrison, J.M. Werkmeister, D. Zigelman

Required Clerkship

THIRD YEAR

The major undergraduate teaching effort of the Department of Pediatrics occurs in the third year. Each student takes a six-week Core Clerkship at either The New York Hospital (NYH) or the North Shore University Hospital (NSUH). The organization of the clerkship at these two sites is somewhat different. At NSUH, each student spends 3 1-2 weeks on a general pediatric in-patient unit and 1 1/2 weeks on the in-patient adolescent unit. In addition, one week is spent in the out-patient clinics and newborn nurseries of the St. John's Hospital (a NSUH affiliate). At NYH, in-patient and out-patient components of the course are integrated. Students are assigned to an inpatient team with which they make daily rounds and to which they admit patients. In addition, each student selects one general and one subspecialty clinic in which he/she then attends each week. Students also have an opportunity to spend four consecutive mornings in the well infant nurseries, an afternoon with a practicing pediatrician, and a day at the Catholic Medical Center. Emergency room experience is gained by scheduled evening assignments to this unit.

Students are responsible for a history, physical examination, and formulation of a differential diagnosis. The diagnostic and therapeutic plan for the patient is developed by the student, and presented to the attending physician. Students are expected to follow their patients closely, and to write pertinent progress notes. Formal teaching seminars are scheduled highlighting various aspects of general pediatrics as well as its subspecialties. In addition, the student participates in daily attending rounds and case discussions. The regularly scheduled Grand Rounds and Professorial Rounds for the Department of Pediatrics are part of the curriculum for the third-year student.

Students are assigned in groups of four or five to a tutor who is a member of the faculty. In twice weekly meetings, the tutor reviews the student's writeups and formal case presentations. These meetings are also frequently used to review specific points of diagnosis, treatment and pathophysiology through brief presentations made by students.

Elective Options

Elective options are offered to first-, second-, and fourth-year students. Interested students are referred to the Fourth Year Catalog for a

complete listing of opportunities available in the department.

In addition to a subinternship in general pediatrics, the department offers a wide variety of electives in both clinical and research pediatrics at The New York Hospital, Hospital for Special Surgery, Memorial Hospital, and North Shore University Hospital. Other elective courses are listed in the Fourth Year Catalog.

PHARMACOLOGY

Professors Emeriti of Pharmacology

W. Modell, W.F. Riker, Jr., Revlon Pharmaceutical Professor Emeritus of Pharmacology and **Toxicology**

Professors of Pharmacology

W.W.Y. Chan, acting chairman; R.W. Houde, C.E. Inturrisi, R. Levi, U. Muller-Eberhard (pediatrics), M. Okamoto, M.M. Reidenberg, A.B. Rifkind, A. Van Poznak (anesthesiology)

Adjunct Professor of Pharmacology

B.A. Berkowitz

Associate Professors of Pharmacology

K.M. Foley (neurology), H. Kutt (neurology), G.W. Pasternak (neurology), H.H. Szeto

Associate Research Professor of **Pharmacology**

D.E. Drayer

Adjunct Associate Professor of **Pharmacology**

A. Sastre

Adjunct Associate Professor of Clinical Pharmacology

O.L. Laskin

Assistant Professors of Pharmacology

D. Felsen (surgery), S.S. Gross, B.R. Meyer (medicine), D.A. Notterman (pediatrics)

Instructors in Pharmacology

S.A. Fiamengo (anesthesiology), S.O. Franklin, G.S. Hartman (anesthesiology)

Required Courses

SECOND YEAR

Medical Pharmacology A major aim of this course is to teach how selectivity of drug action is determined by pharmacologic principles. Emphasis is placed on the application of pharmacologic principles to the understanding and evaluation of drug actions. The goal is to provide the student with a scientific basis for a rational approach to drug therapy. Prototype drugs considered systematically serve to illustrate the pharmacologic characteristics of the important drug classes and their application in medicine.

The course begins with an introduction to the general principles of pharmacology. This is followed by a systematic coverage of major drug classes by lectures and conferences. Mechanisms of action and adverse effects of prototype drugs in current clinical use are prsented in formal lectures. Case studies and problem-solving exercises are discussed at conferences to illustrate the application of basic pharmacologic knowledge in clinical medicine.

Elective Options

SECOND AND FOURTH YEARS

In both the second- and fourth-year elective periods, opportunities are available to pursue supervised laboratory course work and clinical studies in neuropharmacology, cardiovascular pharmacology, endocrine pharmacology, renal pharmacology, clinical pharmacology, drug dependency, analgesic pharmacology, drug metabolism, and cancer chemotherapy. A course in molecular pharmacology is offered in the fourth quarter of the second year (see Fourth Year Course Catalog).

PHYSIOLOGY AND BIOPHYSICS

Professor Emeritus of Physiology and **Biophysics**

R.L. Greif

Professors of Physiology and Biophysics

E.E. Windhager, Maxwell M. Upson Professor of Physiology and Biophysics, chairman; O.S. Andersen, S.A.R. Fuchs (reproductive biology), M.C. Gershengorn (medicine), B. Grafstein,

Vincent and Brooke Astor Distinguished Professor of Neuroscience, C.O. Lee, T. Maack, L.G. Palmer, J.L. Stephenson (biomathematics)

Research Professor of Physiology and **Biophysics**

J.E. Sealey (medicine)

Adjunct Professors of Physiology and **Biophysics**

R.G. Abramson, E. Heinz

Associate Professors of Physiology and **Biophysics**

C. Fell, D. Gardner, T.K.C. King (medicine), A.N. Krauss (pediatrics), H.J. Sackin, B.W. Urban (anesthesiology), A.M. Weinstein

Associate Professor of Clinical Medicine in Physiology and Biophysics

M.S. Pecker

Associate Research Professors of Physiology and Biophysics

G. Campbell (medicine), G.F. Frindt

Adjunct Associate Professors of Physiology and Biophysics

S.B. Baruch, J.P. Reeves

Assistant Professors of Physiology and **Biophysics**

M-J.F. Camargo (medicine), G.D. James (medicine), S.M. Jones, K-J. Kim (medicine), D.C. Larrivee, M. Moline (psychiatry), M.S. Pecker (medicine), B.M. Rayson, E. Townes-Anderson

Adjunct Assistant Professors of Physiology and Biophysics

T.J. Colatsky, J.E. Franklin, Jr. (medicine), D.C. Gadsby, E. Natke, Jr.

Instructor in Physiology and Biophysics

E. Recio-Pinto (anesthesiology)

Visiting Instructor of Physiology and **Biophysics**

S.W. Chae

Required Courses

FIRST YEAR

Instruction in physiology and biophysics is concentrated in the third and fourth quarter of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy and biochemistry. The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and the means by which the functions of the various organ systems are integrated.

The laboratory work emphasizes mammalian physiology, and is directed toward quantitative determinations. Students are expected personally to obtain experimental data in carefully selected experiments and are taught to interpret them objectively and in a physiologically meaningful fashion. The laboratory experiments are chosen to illustrate fundamental principles in the field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

Third Quarter Bioelectric phenomena, physiology of nerve and muscle, neuromuscular junction, smooth muscle, cardiac electrophysiology and physiology of blood circulation; lectures and conferences on endocrinology (integrated interdepartmental teaching of endocrinology). Laboratory exercises: one day each week for four weeks.

Fourth Quarter Laboratory work on selected topics in physiology and biophysics. Conferences are devoted largely to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures are given on respiration, the physiology of body fluids and acid base balance, renal and gastrointestinal function. Laboratory exercises: one day each week for four weeks. Neurophysiology is taught by members of the physiology teaching staff in a separate neuroscience course.

The student is expected to meet a standard of knowledge in the indicated areas of physiology of sufficient depth to provide a basis for clinical teaching. At the end of the course the student is expected to have a sound grasp of the

physiological basis of medicine and a professional understanding of the mechanisms involved in maintaining normal function of the human body.

Elective Options

Seminar courses in topics in membrane biophysics, topics in fluid and electrolyte balance, cardiac electrophysiology, gastrointestinal, and respiratory physiology are offered to first year students during the third and fourth quarter. An opportunity is offered to students during their second- and fourth-year elective periods to participate as laboratory instructors in physiology. Research work and journal clubs for medical students will be arranged on consultation with members of the department.

PSYCHIATRY

Professors Emeriti of Psychiatry

O. Diethelm, R.N. Kohl, W.T. Lhamon

Professor Emeritus of Clinical Psychiatry S.L. Feder

Clinical Professors Emeriti of Psychiatry

H.E. Daniells, P. Greenacre, F.J. Hamilton, Sr., J.H. Wall

Professors of Psychiatry

R. Michels, *Barklie McKee Henry Professor of Psychiatry*, chairman; A.M. Cooper, A.J. Frances, W.A. Frosch, J.G. Gibbs, Jr., S.L. Gilman (history), I.D. Glick, K.A. Halmi, J. Holland, O.F. Kernberg, G.L. Klerman, J.J. Mann, R.B. Millman, *Saul P. Steinberg Distinguished Professor of Psychiatry and Public Health*, D.J. Reis (neurology), T. Shapiro, G.P. Smith (behavioral science), P.E. Stokes

Professors of Clinical Psychiatry

S.A. Asch, A.C. Carr (psychology), J.F. Clarkin (psychology), A.H. Esman, S. Gaylin, J.L. Katz, S.W. Perry, III, A.H. Samiy (medicine), C.A. Shamoian, S.P. Stein, M. Viederman

Clinical Professors of Psychiatry

M. Beldoch (psychology), H.R. Blank, E.T. Carlson, H. Fensterheim (psychology), L. Friedman, S.S. Goldensohn, H.F. Hunt (psychology), H.S. Kaplan, R.C. Mastrovito,

W.A. Myers, J.M. Quen, C.J. Sager, L. Salk (psychology)

Adjunct Professors of Psychiatry

N. Dain (history), J.T. English, W. Kass (psychology), B.F. Leavy (english), J.F. Masterson, M. Reznikoff (psychology), R. Schafer (psychology), H.J. Schlesinger (psychology)

Associate Professors of Psychiatry

S.H. Ackerman, G.J. Botvin (psychology), M.D. Clayson (psychology), M.E. Hertzig, P.F. Kernberg, J. Kocsis, C. Pollack (neurology), M.H. Sacks, F. Schwartz (psychology), J.A. Sechzer (psychology), K. Tardiff

Associate Professors of Clinical Psychiatry

G.S. Alexopoulos, A.H. Appelbaum, B.L. Ballard, H. Bolocan, S.A. Grolnick, S.W. Hurt (psychology), S.J. Kaplan, H.D. Kibel, H.W. Koenigsberg, A.B. Lewis, A.W. Loranger (psychology), M.J. Massie, S. Mattis (psychology), M.R.A. Mattson, B.S. Meyers, F.T. Miller, S.G. Mortati, R.L. Munich, C.R. Pfeffer, W.H. Redd (psychology), L.H. Rockland, J. Schomer, M.A. Selzer, S.K. Severino, M.K. Shear, G.E. Solomon (neurology), V.L. Susman, K.G. Terkelsen, P.G. Wilson, R.C. Young

Clinical Associate Professors of Psychiatry

J.M. Astrachan, G.G. Ball (experimental psychology), S.F. Bauer, A.R. Broden, J.W. Brown, R.D. Bruun, E.H. Church, J.F. Crow, E.G. Dabbs, A. DuPuis, S.R. Edelson, M.S. Eisenberg, A.K. Frankel, M.M. Fredland, R.E. Glass, R.S. Grayson, L.J. Hatterer, M. Hill, R.A. Isay, P.T. Janulis, T.P. Kalman, S.E. Kapel, M.G. Karmason, M.D. Kerr, A. Kiev, J.S. Kwawer (psychology), B. Landis (psychology), L.G. Laufer, R.F. Lax (psychology), M.S. Lederberg, H.J. Lefkowits, E.Y. Liang, E.L. Lipton, L. Loeb, A.A. McLean, M. Muroff (psychology), B.L. New, Y. Nir, W. Overholser, J.M. Perman, M. Radomisli (psychology), J.M. Ross (psychology), M-L. Schoelly, A.M. Schwartz, D.A. Shapiro, J.H. Spencer, Jr., T.G. Stauffer, J.J. Stine, N.L. Straker, J.S. Tamerin, J. Terry, D. Weitzner, M.C. Winestine (psychology), C. Winkelstein, M.C. Zimmerman (psychology)

Adjunct Associate Professors of Psychiatry

D.I.A. Cohen (biostatistics), F.F. Flach, R. Gilder, H.H. Krauss (psychology), J.R. Lachenmeyer (psychology), R.B. Murphy (biochemistry), R. Rabkin, J. Steinberg

R.C. Abrams, G. Addonizio, W.V. Akman (medicine), I.M. Almeida, W.H. Berman, Jr. (psychology), W. Breitbart, J.A. Deltito, R.S. Deucher, E.S. Dickinson, D.C. Dillon, J.B. Doller, V.M. Fornari, M.R. Fyer, S. Gabel, R.E. Gallagher, S.E. Gelda, E.R. Greenblatt (psychology), J.A.R. Grimaldi, G.L. Haas (psychology), F. Hajal, S.P. Herman, J.H. Holt, J.W. Hull (psychology), I.G. Hyler, B. Kalayam, D.A. Koch (psychology), L.M. Lesko, A. Manevitz, B.J. Mason (psychology), P.A. McBride, N.S. Miller, M.L. Moline (physiology), G.M. Montero, D.E. Nambudiri, M.M. Newman, H.J. Polan, A. Reggev (medicine), G.S. Ross (psychology), M.J. Russ, D.E. Sandberg (psychology), E.J. Schork, Jr. (psychology), J.E. Schultz, E.E. Seelye, M.E. Snow (psychology), T. Sullivan, J.A. Sweeney (psychology), C.R. Swenson, S.E. Tross (psychology), S.G. Underwood, P.J. Weiden, F.E. Yeomans, J.I. Zach

Assistant Professor of Clinical Psychiatry

D.R. Wagner (neurology)

Clinical Assistant Professors of Psychiatry

D. Adams, R.C. Ascher, E.L. Auchincloss, S. Auchincloss, R.D. Baker, A. Barasch, J. Barbuto, R.J. Berlin, M.B. Blitz, J. Blum (psychology), T.B. Boland (psychology), G. Brezenoff (psychology), L.M. Brody, R.B. Brower, J.L. Brown (pediatrics), W. Burten, T. Butler, M. Carsky (psychology), J.J. Cavanagh, I. Chiarandini, C.J. Clark, A.J. Clarkin (psychology), D. Cohen, R.P. Cohen, J. Cohler (psychology), H.N. Cooper, P.C. Deri (psychology), C.B. Diamond, C.H. Diaz-Matos, M.V. DiGangi, N. Donson, T.L. Doyle, Jr., J. Dunietz, E. Einbinder, A. Eisen, S. Eisenman, K. Eisenstadt, D. Feinberg, S.D. Feinstein, E.H. Feuer, J.L. Fine (psychology), M.M. Fitzpatrick (psychology), M.P. Frogel, V. Fromberg, R.I. Ganeles, C. Gardner, B. Gilbert, K.J. Gilmore, M.M. Gilmore, A.B. Gistrak, H.I. Glazer (psychology), T. Glinberg, M.R. Goldberger, S. Golub, J.E. Gorney (psychology), G.J. Grad, R.B. Granet, G. Greenberg (psychology), E.L. Greene, O.H. Gutierrez, D.N. Hertz, R.K. Hill, R. Hirsch, L. Hoffman, K. Hopenwasser, H.F. Huebner, C.G. Huntington (radiology), G.D. Igel, P.S. Ingber, S.C. Josephson (psychology), R. Kaiser, N.L. Kaplan, R.D. Kaplan, N.P. Karush, R.K. Karush, P.F. Kauff (psychology), K. Kelly, H.A. Kim, K.S. Kirstein, Z.L. Lazar (psychology), N. Lebowitz, R.E. Lee (medicine), K.A. Lepp, A.H. Levi (psychology), P.A.

Levi, G.L. Levitt, B.A. Lieberman, D. Lieberman, J.H. Liebowitz, S. Lituchy, D.A. Lord (psychology), I.B. Lorinstein (psychology), E.M. Loutsch, M.P. Luber, A.S. Maerov, R.L. Malen, D. Manning, E. McNutt, J.G. Mendel, E.M. Mendelsohn (psychology), R.J. Mitchell, L.M. Moss, D.B. Nagel, A.D. Nahas, L.M. Najarian, M.J. Napoliello, S.G. Nathan (psychology), E. Nersessian, A.I. Newman, P.O. Niceta (surgery), J.E. Nininger, H. Nunberg, B.E. O'Connell, A.K. Offit, E.C. Ortof (psychology), L.M. Parker, E.L. Parsons, J.T. Patten, D. Pelcovitz (psychology), V.S.B. Pender, M.A. Perelman (psychology), M.M. Peskin, E.R. Peyser, A. Phillips, V.R. Piskacek, J.M. Price, S.N. Price, A. Radomisli, J.C. Rembar (psychology), M.S. Reubins, M.M. Rick (psychology), J.B. Rohrlich, M.G. Rothenberg (psychology), E.B. Rowntree, M. Rubinstein, G.H. Rusk, E.H. Rutstein (psychology), S. Saltzstein (psychology), E. Samberg, G.K. Samios, B.J. Saul, P.S. Saunders (psychology), J.W. Schein, J. Schmugler, A.H. Schore, S.W. Seides, R. Silbert, H.B. Simon (surgery), L.J. Sobel, M.A. Spiegel, M. Spital, I. Sternschein, J.T. Sutter, L. Tallal, J. Tolchin, L. Tucker (psychology), H.J. Urbach, R. Waldbaum, S. Waldron, Jr., M. Wasserman, S.J. Wein, H.J. Weinberg, A.S. Weiner (psychology), W.M. Weisner, J.H. Weiss (psychology), J. Weiss (psychology), R.W. Weiss, W. Weiss, L.C. Winther, M.H. Witkin(psychology), M.R. Zimiles

Adjunct Assistant Professors of Psychiatry

A.M. Antonovsky (psychology), E. Becker, A.U. Beltramini, S. Bram (psychology), B. Buchsbaum (psychology), T. Cherbuliez, H. Davidoff-Hirsch, L. Diamond, A. Drewnowski (psychology), Z.E. Dziewanowska, B. Fishman (psychology), R.L. Gold, W.H. Goodman, S. Grossman, E. Halpert, M.G. Hart, H.D. Kachalsky, A.B. Landolt, A. Lew, C.Z. Malatesta (psychology), J.C. Mayer, J.M. McGowan, A. Mobarak, I. Mohacsy, R. Neschis, E.S. Nininger, S.J. Orloff, S. Pazner, A.P. Perlstein, N.M. Peters, M. Praissman (biochemistry), E.L. Rabiner, S. Reich (psychology), D.B. Robbins, M.J. Sedler, L. Sevcik (anesthesiology), R.J. Sowala (psychology), J. Steisel

Instructors in Psychiatry

V. Arango (neurobiology), L. Borg, F.N. Busch, M.P. Butin, R.H. Catenaccio, M.M. Da Costa, M.D. DeMeo, D. Diamond (psychology), A.F. Dubro, P. Fishler (psychology), R.A. Friedman, S.J. Goldsmith, D. Greenberg (psychology), E.L. Heiligenstein, J. Herzig, L.B. Jacobsberg, P.B. Jacobsen (psychology), A.F. Kelly (psychology),

B. Korey, N.M. Kravis, R.H. McCarthy, R.N. Marcus, D.B. Marin, J.C. Markowitz, P.M. Marzuk, I.C. Mirchandani, B.L. Olson, W.R. Picker (psychology), S.G. Ross, J.H. Rowland (psychology), M.S. Rubinstein, G.A. Sagi, C.J. Sanderson (psychology), L.H. Schneider (psychology), A.P. Sellew, M.E. Servis, M.S. Sokol, T.W. Sowin, P.V. Trad, H. Van Bellingham, P.J. Wilner, C.D. Wright

Clinical Instructors in Psychiatry

S. Aarons, H.K. Abramowicz, P.J. Acker, G.H. Albert, V. Alcena (medicine, courtesy), R. Altman, J.E. Asch, A. Balas, K.J. Barish (psychology), E.P. Bender, J. Benjamin, H. Berger, N. Berkowitz (pediatrics), D.K. Bloomgarden (medicine), J.W. Bloomgarden (psychology), J. Bose, S. Brandt, D.S. Breindel, R.H. Brent, N. Brockner, J.E. Burris (ophthalmology, courtesy), B.B. Caraccio, N.B. Case (psychology), S.E. Ciazan (psychology), M.V. Cohen (psychology), N.S. Cohen (psychology), R.O. Cohen (psychology), S.K. Cohen, S.A. Cooperman, A.K. Criticos (psychology), H.F. Dawes (surgery), N.J. Dean-Grosack (podiatry), R. DePaula, J.C. Dietrich (psychology), R.J. Doherty (dentistry), G.M. Dominiak, A Donatelli, J. Ebenstein, D.J. Eger (psychology), M.D. Epstein, R.B. Fath, Jr. (medicine), C. Feigelson (psychology), P.A. Felder, L.G. Fischman, B.L. Flye (psychology), E.F. Flynn, L.Geisen (psychology), W.L. Golden (psychology), B. Goodman, S.D. Goodman, M. Gordon, R.J. Gordon, M.S. Graham (dentistry), J. Greenberg (psychology), J.G. Greenspan (anesthesiology), M.A. Grosack (podiatry), P.L. Grossman, H.H. Guy (anesthesiology), A.M. Hilmi (medicine), E.L. Hollander, M.A. Horowitz (ophthalmology, courtesy), J.T. Howard (obstetrics and gynecology), W. Jacobson, V.T. Jorgensen, D.M. Kaminsky, S.B. Kardon (radiology), B. Katz, S.C. Katz, E. Katz-Killian, M.A. Katzman (psychology), S. Kofman (psychology), R. Kogan, S. Kramer, R.S. Kruger (psychology), J. Lanoil (psychology), A.C. Lee (psychology), M.M-H. Lee (anesthesiology), S.P. Lee, M. Levine, E.G. Lister, P. Lister, A.N Looker, M.A. Luallen (psychology), J.R. Lusic, J.L. Maher, B. Markman-Reubins, B.A. Meisel (obstetrics and gynecology), D.M. Mender, W.J. Miles (dermatology), D.L. Moreau, C.J Morosini (medicine), D.A. Moses, J.B. Moses (medicine), S.T. Nevins (otorhinolaryngology), S.B. Ornstein, A. Orr-Andrawes, L.D. Orvieto (dental and oral), D. Padouvas, A. Papiasvili, S.L. Pauker, E.M. Paul, P. Pechman (medicine), S.S. Phansalker, D.L. Pogge (psychology), L. Prusnofsky, J.A. Ramsdell (surgery), S.D. Raw

(social work), A.O. Rebholz (dental surgery), J.O. Roiphe, P.E. Romero, A. Rosenberg, W.S. Rosenfeld, M.G. Rudden, A.F. Russo, R.S. Sacks, M.B. Saul (dentistry), D.H. Sawyer, R.S. Schachter (psychology), L.D. Schackman, A. Schongalla, M. Schwab, M.N. Seif (psychology), E.D. Shaw (psychology), M. Shukla, M. Sickles, L.M. Sinsheimer, L. Spiegel, A.I. Stempler, K. Stone (psychology), S.M. Trutt, T. Van Allen, M.G. Versfelt (pediatrics), S. Wagner (psychology), M. Wainston, C. Weinstein, D.J. Weiser, R. Welner, E.K. Zitzmann (surgery)

Visiting Instructor in Psychiatry

N. Argyle

Required Courses

FIRST YEAR, First Quarter

Introduction to Human Behavior This course reviews the phenomenology and development of human behavior. Each week a one-hour lecture demonstration presents aspects of mental functioning including affect, thought, and perception. Their role in the organization of defense and coping mechanisms, the doctor-patient relationship, and sexuality are elucidated. Following the lecture, small groups of students meet with two preceptors, discuss the lecture and reading material, and visit a medical or psychiatric ward where a patient is interviewed. The data of the interview are organized by using the material discussed that week.

FIRST YEAR, Fourth Quarter

The Basic Sciences of Psychiatry The purpose of this course is to demonstrate how knowledge in the basic sciences is fruitfully brought to bear on major problems in psychiatry. One area such as depression, psychiatric aspects of HIV spectrum disease, or human sexuality will be chosen for illustration and explored in depth over eight weeks. The course is given as a weekly three-hour session during the fourth academic quarter. In the first hour of each three-hour session lectures and videotaped demonstrations are given on selected topics. The other two hours are spent in small tutorial groups with two faculty members. The purposes of these tutorials are to emphasize the scientific approach to psychiatry, to identify the growing edge of research in this field, to teach students to read the current literature intelligently, and to assist each student to develop an interest in a relevant topic that is written up as a concise and critical review of the subject.

SECOND YEAR

Psychopathology The major psychiatric disorders are discussed, emphasizing clinical features, etiology, diagnosis and treatment. After each lecture, groups of seven students meet with two faculty members on the wards of the Payne Whitney Clinic to discuss the lecture topic and reading assignments, and to interview patients. Students are helped to achieve an understanding of mental illness and to develop their observational, diagnostic, and interview skills.

THIRD YEAR

Clinical Psychiatry Clerkship Students are assigned for six weeks to special teaching units either at the Payne Whitney Clinic or at the Westchester Division of The New York Hospital. Clerks are given the opportunity to assume major responsibility for the evaluation and treatment of selected inpatients under the supervision of full-time faculty and residents.

Students also work with the families of inpatients and participate in all ward activities. Outpatient experiences with adults and children are also provided. Seminar series, tutorials, readings and videotapes of typical psychiatric syndromes supplement the direct clinical experiences.

Elective Options

FIRST AND SECOND YEARS

Electives are offered in basic research areas of psychiatry, including Chronobiology, Development, and Human Sexuality. Students are encouraged to become involved in research activities in the Department during the first year, which they then have the opportunity to develop over the next three years. They may apply this work to candidacy for the degree of M.D. with Honors in Research. A Psychiatry Club, which meets monthly, is open to all students interested in psychiatry.

Summer Fellowships. A wide variety of summer fellowships in research are available. They include participation in ongoing faculty research as well as special projects specifically designed for medical students that can be completed in a ten-week period. Projects have ranged from the study of neurophysiology of exploratory behavior in rats to studies of the families of dialysis patients and of patients who do not follow medical regimens. Fellowships are available in inpatient and outpatient settings in many areas of the medical center. Details

are available at the office of the Director of Medical Student Education. Students can apply for an NIH Summer Research Fellowship, and other special programs are available.

FOURTH YEAR

Electives and subinternships in inpatient and outpatient psychiatry— both adult and childoffer extensive opportunities to learn diagnosis and treatment of psychiatric patients by assuming direct responsibility, under supervision, for patient care. Research electives are available in the many research laboratories and activities of the Department including neurotransmitter biochemistry, infant development, clinical pharmacology, movement disorders, AIDS, and many others. Electives are also available in consultation-liaison, social and community psychiatry, psychotherapy, etc. A special effort has been made to provide relevant clinical psychiatric electives in pediatrics, surgery, obstetrics and gynecology, oncology, and internal medicine for students who do not plan a career in psychiatry. Elective sites include Payne Whitney Clinic, Westchester Division, Memorial Hospital, and North Shore University Hospital, as well as the many sites of liaison activity on nonpsychiatric services within The New York Hospital. Details are available at the office of the Director of Medical Student Education and in the Fourth Year Course Catalog.

PUBLIC HEALTH

Professor Emeritus

F. Daniels, Jr.

Clinical Professors Emeriti of Public Health

L. Baumgartner, L.L. Heimoff, S.A.L. Howe, B.H. Kean

Clinical Associate Professors Emeriti of **Public Health**

C.A. Bernsten, Jr., D.R. Schwartz (nursing), A.W. Seligmann, A. Ullmann (social work)

Professors of Public Health

G.G. Reader, Livingston Farrand Professor of Public Health and Preventive Medicine, chairman; R.L. Engle, Jr., M.E.W. Goss (sociology), R.B. Millman Saul P. Steinberg Distinguished Professor of Psychiatry and Public Health, H.S. Ruchlin (economics)

Professors of Clinical Public Health

L.M. Drusin, W.D. Johnson, Jr.

Clinical Professors of Public Health

E.J. Cassell, E.G. McCarthy, C.E. Stevens

Adjunct Professors of Public Health

M.H. Alderman, B.J. Flehinger (biostatistics), P.J. Imperato, S.S. Lee, V. Miké (biostatistics), G. Palevsky (engineering), A.L. Scherzer (pediatrics), V.W. Sidel, E.A. Wolfson

Visiting Professors of Public Health

E. Ginzberg (economics), P.D. Marsden

Associate Professors of Public Health

G.J. Botvin (psychology), K. Tardiff (psychiatry)

Associate Professors of Clinical Public Health

R.L. Braham, E.T. Khuri

Clinical Associate Professors of Public Health

M.L. Finkel, D.G. Miller, K. Siegel (sociology)

Adjunct Associate Professors of Public Health

S.A. Kline, M.J. Kreek, S.C. Phillips

Adjunct Associate Professor of Clinical Public Health

E.F. Pascarelli

Assistant Professors of Public Health

E. Baker, R.B. Brower, L.A. Dusenbury (psychology), N.L. Geller, L.M. Gerber, A. Gibofsky, J.F. Kerner (psychology), M.L. Lesser (biostatistics), J.P. Nicholson, P.L. Schnall, R. Soave, S. Tortu, M.E. Warshauer, H.C. Weiss

Clinical Assistant Professors of Public Health

G. Bondi, G.R. LeClercq, E.A. Zang (biostatistics)

Adjunct Assistant Professors of Public

D.A. Benezra, S.B. Blum, J.A. DeHovitz, J.H. Godbold, Jr. (biostatistics), W.H. Loery, S. Madhavan, S.H. Vermund, C.W. Wilkinson

Instructors in Public Health

J.R. Allen, K. Offit

Clinical Instructors in Public Health

L.I. Biris, P.G. Elster

Public Health as a field focuses on disease prevention, disease control, and health promotion in human groups. Society, rather than the individual, is the "patient". A major function of public health practitioners is the design and supervision of organized public and private programs targeted to meet community health needs. Researchers in public health from fields within and outside of medicine provide the knowledge-base for such programs. The specific content of practice and research in public health changes with changing technology and altered social and environmental conditions. But the goal remains the same: to reduce the amount of disease, premature death, and disease-produced disability in groups of people through organized efforts and disciplined study.

Courses in the Department of Public Health are designed to introduce students to important aspects of the field. Recognizing that the majority of students will not receive further training in public health after medical school, the department seeks to equip students with basic concepts and methods that will promote their present and future understanding of local, national, and international issues concerned with the public's health. Also, through teaching the approaches to problem solving embodied in epidemiology and biostatistics, the department seeks to provide lifelong intellectual tools for designing and assessing research in many fields of medicine. Electives are available for students who wish more intense exposure to public health research and/or practice.

Required Courses

FIRST YEAR

Community Health and Disease

Prevention This course describes selected current disease problems that threaten or impair community health in the U.S. and abroad. The multiple interacting individual, social, economic, political, and environmental factors responsible for such problems are considered, as are approaches to preventing or alleviating the problems on a community-wide basis. Lectures and small group seminars. Coordinator, Dr. Millman. Third Quarter.

Introduction to Biostatistics This course presents a brief introduction to the basic concepts of probability and classical statistics, and describes the major statistical techniques encountered in the medical literature. Methods for collecting and summarizing clinical data are discussed, with emphasis on the design of clinical trials. Computer terminals for solving statistical problems are available. An exemption test is available for students with previous training in statisities. Dr. Godbold. Third Quarter.

Introduction to Epidemiology This course deals with the distribution and causation of diseases in mankind, and with the concepts and methods necessary to describe and analyze such phenomena in populations and groups. Considered early in the course are important indices of disease frequency, mortality measures, design of retrospective (case history) and prospective (cohort) studies, and measures of relative and attributive risk. These fundamentals are then illustrated by reviewing selected communicable and chronic diseases, and by critical examination of recent journal articles. Lectures and seminars. Third Quarter.

SECOND YEAR

Systems of Health Care This course describes the U.S. health care system in terms of the major dimensions used to characterize health care systems world-wide: the availability and organization of health personnel, types of health care facilities, and sources of economic support for health care activities. It includes attention to issues in the regulation of quality of medical care, problems in planning health care for communities and the nation, and the role of politics in formulating national health care policy. To provide perspective, the British system of providing health care is also discussed. Dr. Reader and Dr. Goss. First Ouarter.

Parasitology and Tropical Medicine (the B.H. Kean Course) This course focuses principally on disease caused by the larger parasites that are especially prevalent in socalled underdeveloped areas. The course begins with the study of the host-parasite relationship as it is considered in microbiology and pathology and then broadens to include macroscopic parasites. Thus, although the initial and major emphasis of the course is on microscopy, it also deals with the main avenues for the study of diseases in man; clinical medicine and epidemiology. The important larger parasites of man reconsidered, the mode

of transmission of each parasite is studied, as well as the life cycle and the intermediate hosts. Prevention and control of human parasitic diseases are considered and therapy for these conditions is discussed. Actual cases of parasitic diseases are used to illustrate laboratory exercises and lectures, Dr. Johnson, assisted by Dr. Marsden. Fourth Quarter.

FOURTH YEAR

Public Health and Community Medicine This course provides field trips in New York City, coordinated with seminar sessions in which field trip experiences and the larger public health issues involved are discussed and evaluated. Literature review is stressed along with first-hand experience in order to arrive at balanced views of major topics in public small groups. Coordinator, Dr. Drusin. Rotations throughout the year.

Elective Options

Electives are offered throughout the four years. They include individually arranged study and research in health economics, in health care delivery problems in New York City, and in substance abuse, other public health problems, as well as experience and training in epidemiology at the Centers for Disease Control, Atlanta, Georgia. A full listing of electives is available in the Fourth Year Course Catalog.

RADIOLOGY

Professor Emeritus of Radiology

J.A. Evans

Clinical Professor Emeritus of Radiology R.F. Phillips

Clinical Associate Professor Emeritus of Radiology

I. Zizmor

Professors of Radiology

J.P. Whalen, chairman; D.V. Becker, F.C.H. Chu, R.H. Freiberger, B.S. Hilaris, E. Kazam. J.H. Kim, L. Krook, J.S. Laughlin (physics), T.A. Sos, H.L. Stein, R.C. Watson

Professors of Clinical Radiology

M.A.E. Batata, Y.M. Berkmen, M.D.F. Deck, A.B. Goldman, H. Pavlov, S.J. Vacirca (physics), P. Winchester

Clinical Professor of Radiology

F.M. Cummins

Adjunct Professors of Clinical Radiology

P. Rossi, J.L. Westcott

Visiting Clinical Professor of Radiology

D. Wilner

Associate Professors of Radiology

R.E. Bigler (physics), P.W. Brill, E.E. Deschner (medicine), M.L. Druzin (obstetrics and gynecology), B. Ghelman, D.G. Gomez, A.F. Govoni, C.I. Henschke, J.R. Hurley, R.A. Hyman, J.B. Naidich, L.Z. Nisce, N. Poker, L.N. Rothenberg (physics)

Associate Professors of Clinical Radiology

L.L. Anderson (physics), J.L. Bosworth, J.F. Caravelli, M.A. Goldman, D.B. Hayt, R.T. Heelan, G. Krol, R. Mohan (physics), S. Packer (ophthalmology), W.A. Rubenstein, S.D. Sarkar, R. Schneider, J. Smith, H.S. Teixidor, S.S. Turner, R.D. Zimmerman

Clinical Associate Professors of Radiology

Y.H. Auh, L. Kalisher, G. Stassa

Adjunct Associate Professors of Radiology

S. Balter (physics), P.T. Cahill (physics), D. Cowburn (physics), L.F. Lunin, E.A. Nunez (physics), M.E. Peterson (physics)

Assistant Professors of Radiology

B.L. Binkert, J.F. Botet, S. Bow, C-S. Chui (physics), K.S. Crystal, S.D. Davis, D.D. Dershaw, D.S. DeBlasio, M.J. Edelman, S.B. Epstein, D. Fontenla (physics), M.T. Gorey, R. Gottesman, R.J. Gray, L.A. Heier, S. Hopfan, J.M. Hutson (obstetrics and gynecology), K.A. Jain, B.R. Javors, C.E. Johnson, D.L. Katz, R.J.R. Knowles (physics), P.A. Kosovsky, J.A. Koutcher (physics), S.A. Kroop, S.C. Krysiewicz, G.J. Kutcher (physics), J.A. Markisz, M.E. Masterson (physics), P.V. O'Moore, D.M. Panicek, M.E. Rackson, E. Ramirez, G.K. Sze, C. Tack, A. Wecksell, K.L. Weingarten, D. Wojtasek, D. Yankelevitz, P.B. Zanzonico, K. Zirinsky

Assistant Professors of Clinical Radiology

M. Graham (physics), J. Levenbrown, R.C. Packert, K. Pentlow (physics), G.D. Ragazzoni (physics), J. St. Germain (physics)

Clinical Assistant Professors of Radiology

G.F. Abbott, S.A. Albert, J. Bastidas, G.A. Cataldi, B.E. Cohn, P.J. Conte, A.G. Dembner, A.W. Haraway, V.M. Herasme, J.C. Hirschy, C.G. Huntington, M. Jacobs, K.B. Karlson, J.V. Levitan, M. Levy-Ravetch, C.C. Maniatis, L.D. Neistadt, J.G. Pardes, L.A. Saint Louis, H. Selby, S.J. Sherman, R. Solow, C.J. Youner

Adjunct Assistant Professor of Radiology

L.F. Campbell

Instructors of Radiology

R.O. Ehrenpreis, E.S. Gould, T.K. Ho, Y.S. Kim, M.I.C. Perpignano, D.L. Sherr, O.S.M. Tsen

Clinical Instructors in Radiology

M. Barandes, R.J. Katz

Facilities

The completion of the C.V. Starr Pavilion in 1985 has enabled the Department of Radiology to centralize and expand its facilities in a vertical distribution to provide maximal availability to the various clinical services. The main sections of the Radiology Department are located on several floors of the Starr Building. These sections comprise General Radiological Service to The New York Hospital in-patients on Starr 9; Pediatric Radiology on Starr 9; Computerized Tomographic Scanning and Ultrasound on Starr 8, Neuroradiology on Starr 6; Nuclear Medicine on Starr 2. The department's central offices, conference room, and library are located on Starr 8a.

Other important sections of the department are maintained at locations convenient for patient care. These are: Angiography and Interventional Radiology, Uroradiology, Emergency Radiology, and OB-GYN Radiology. A new out-patient Radiology facility has recently been completed, and is located adjacent to the lobby of the C.V. Starr Pavilion. The Section of Nuclear Magnetic Resonance is located on the sub-surface levels of the Payne Whitney Clinic building because of structural shielding considerations. The research facilities for the department are located on the sixth floor of the Harkness Research Building. The Department of Radiological Physics at Memorial Hospital provides radiation surveys, calibration, and

teaching in radiological physics. Radiation Therapy facilities are available in the Stich Building.

Teaching

The teaching of radiology is integrated with the medical school curriculum during all four academic years. Teaching includes seminars, lectures, conferences, observation, and participation in a variety of elective courses.

FIRST YEAR

In conjunction with the first year course in neuroanatomy, a correlative lecture in neuroradiological anatomy is given.

SECOND YEAR

During the fourth quarter of the second year, introductory lectures are given on the clinical aspects of radiology, in preparation for third-year clinical clerkships. The student is introduced to the principles of film interpretation, indications for radiological examination, and to the choice and sequence of the various imaging modalities for the patient's maximal clinical benefit.

THIRD YEAR

The third year radiology clerkship is an integral part of the third year curriculum, for all students. This clerkship endeavors to provide the student with a broad overview of general diagnostic radiology and the radiologic subspecialties. Five mornings a week are devoted to student seminars, emphasizing film interpretation. These seminars include presentations on the five major subspecialities of neuroradiology, angiography, pediatric radiology, bone radiology, and the newer modalities of computerized tomographic scanning, ultrasonography and nuclear magnetic resonance. Afternoons are spent in observation of general film reading, emergency room film reading, nuclear medicine, and radiological physics. An evening selfinstructional audio-visual course is available.

Additional instruction in radiology during the third year is given to students on medical clerkships who attend daily house staff film review of current cases with an attending radiologist.

FOURTH YEAR

During the fourth year, elective modules in advanced diagnostic radiology are offered to students at The New York Hospital, Memorial Hospital, Hospital for Special Surgery, North Shore University Hospital and at St. Barnabas Medical Center.

The student may choose from a wide selection of electives in all phases of radiology. Alternatively, an elective may be structured to the student's particular needs and plans, following an interview.

Additional elective modules are offered by the Department of Radiation Therapy in clinical radiation therapy, brachytherapy and radiation biophysics. The department is equipped with a full range of the most modern radiotherapeutic equipment used in the treatment of malignant disease.

SURGERY

Professors Emeriti of Surgery

E.J. Beattie, V.F. Marshall (urology), R.L. Patterson, Jr., (orthopedics), B.S. Ray

Professor Emeritus of Clinical Surgery W.G. Cahan

Clinical Professors Emeriti of Surgery

W.A. Barnes, J.W. Draper, H.S. Dunbar, H.W. Farr, C.W. Holman, T.R. Miller

Clinical Associate Professor Emeritus of Surgery

W.F. Nickel

Professors of Surgery

G.Tom Shires, Lewis Atterbury Stimson Professor of Surgery, chairman; M.F. Brennan, A.H. Burstein (applied biomechanics), J.J. DeCosse, P. Dineen, P.R. Exelby, W.R. Fair, J.G. Fortner, R.A.R. Fraser (neurosurgery), J.H. Galicich, Jr., D. Goulian (plastic surgery), O.W. Isom (cardiothoracic), J.M. Lane (orthopedics), N. Martini, W. Nagler (rehabilitation medicine), R.H. Patterson, Jr., (neurosurgery), S.F. Redo (pediatrics), A.L. Rubin (biochemistry), D.B. Skinner, K.H. Stenzel (biochemistry), E.W. Strong, E.D. Vaughan, Jr., James J. Colt Professor of Urology in Surgery, W.F. Whitmore, Jr.(urology), P.D. Wilson, Jr. (orthopedics)

Professors of Clinical Surgery

J.R. Denton, A.E. Inglis (orthopedics), J.N. Insall (orthopedics), B. Jacobs (orthopedics), D.B.

Levine (orthopedics), D.S. Martin, C.S. Ranawat (orthopedics), L. Root, E.A. Salvati (orthopedics), J. P. Shah, R. H. Spiro

Clinical Professors of Surgery

S.J. Behrman (dental and oral), B.E. Bromberg, J.H. McGovern (urology), E.C. Muecke (urology), S.H.Q. Quan, P.H. Stern (rehabilitation medicine), B. Thorbjarnarson, J.A. Urban, J.C. Whitsell, 11

Associate Professors of Surgery

E. Arbit, S.P. Arnoczky (comparative orthopedics), D.L. Bartel (applied biomechanics), A.R. Beil, Jr., F. Betts (biophysics), H.L. Bush, Jr. (vascular), A.M. Cohen, J.M. Davis, W.E. Enker. C.W. Goodwin, Jr., Johnson & Johnson Distinguished Associate Professor of Surgery, P.M. Guida, J.M. Hefton (cell biology and anatomy), H.W. Herr, D.W. Kinne, S.F. Lowry, D. E. Matthews, A.J. Okinaka, M.P. Osborne, J.C. Otis (applied biomechanics), R.A. Riehle, Jr. (urology), R.R. Riggio (biochemistry), M.F. Silane, P.A. Skudder, W.T. Stubenbord, P.A. Torzilli (applied biomechanics), A.D. Turnbull, T.M. Wright (applied biomechanics), R.W. Yurt

Adjunct Clinical Professor of Surgery

G.J. Wise

Associate Professors of Clinical Surgery

M.S. Bains, W.H.O. Bohne (orthopedics), S.W. Burke (orthopedics), J.S. Cheigh (biochemistry), G.N. Cornell, F.W. Gamache, Jr. (neurosurgery), A.C. Geiss, B.R. Heinzen, W.H. Knapper, M.H. Lavyne (neurosurgery), J.P. Lyden (orthopedics), P.M. McCormack, D.T. Mininberg (urology), W.F. Pizzi, S.D. Saal (medicine), T.P. Sculco (orthopedics), M.H. Shiu, R.H. Spiro, J.F. Sullivan (biochemistry), L. Tapia (medicine), A.J. Tortolani, R.F. Warren (orthopedics)

Clinical Associate Professors of Surgery

S.E. Asnis, H.Z. Benjamin (rehabilitative medicine), R. Carras, J.W. Coleman (urology), A. F. Cortese, J.H. Doherty (orthopedics), J.A. Epstein (neurosurgery), A.A. Fracchia (urology), A.H. Gold, R.H. Guthrie (plastic surgery), B. Hoexter, M.J. Kaplitt, F.R. Kunken (dental and oral), H. Mannix, R.C. Marcove (orthopedics), V.F. Marzulli, K.P. Morrissey, W.R. Pitts, Jr., (urology), J.J. Putnam (dental and oral), C.E. Rogers, E. Rudd (rehabilitative medicine), J.W. Smith (plastic surgery), N. Spier, R.M. Stark (orthopedics), R.S. Waldbaum, G.E. Wantz

Adjunct Associate Professor of Clinical Surgery

R. J. Berson (urology)

Adjunct Associate Professor of Clinical Surgery

A. E. Kuehl

Assistant Professors of Surgery

N.K. Altorki, A. Antonacci, A.T. Appleton (orthopedics), N.H. Bander (urology), P.S. Barie, D.A. Behrman (dental and oral), M.E. Burt (cardiothoracic), J. C. Byrne, S.E. Calvano, D.G. Coit, C.N. Cornell (orthopedics), D. Felsen (pharmacology), S.G. Friedman, J. Ghajar (neurosurgery), J.P. Gold (cardio-thoracic), M. Goldstein (urology), D.1. Gorga (rehabilitation medicine), R.F. Green (rehabilitation medicine), P.H. Halebian, M.H. Hall, J.H. Healey (orthopedics), D.A. Hidalgo, L.A. Hoffman (plastic surgery), N.A. Johanson (orthopedics), G.E. King, K.H. Kreiger (cardiothoracic), S.J. Lang (cardiothoracic), G. S. LaTrenta, J.A. McAuley, R.R. McCormack, Jr. (orthopedics), C.G. Moccio, L.L. Moldawer, M.J. Morse, R.L. Nelson, S.L. Nori, D.A. Notterman (pediatrics), S.J. O'Brien (orthopedics), V.A. Parnell, Jr., P.M. Pellicci (orthopedics), J.A. Petrek, R.B. Peyton (cardiothoracic), D.S. Reiner, C.M. Rimnac (applied biomechanics), R.B. Snow (neurosurgery), P.C. Sogani, R.E. Sosa (urology), L. Staiano-Coico (microbiology), 1. Von Estorff (rehabilitation medicine), J.C.L. Wang (medicine), R.J. Ward, G.F. Whalen, T.L. Wickiewicz (orthopedics), R.E. Windsor (orthopedics)

Assistant Professors of Clinical Surgery

J.M. Aronian 111, T.A. Chaglassian

Clinical Assistant Professors of Surgery

1.J. Aprile, M. Arlen, F. Attiyeh, H.T. Barbaris, 1.F. Barkan (rehabilitation medicine), L.A. Behrman (dental and oral), C.M. Beiles, B.W. Brewer, J.C. Byrne (urology), W.T. Curry, T.M. Darrigan (dental and oral), J.D. Davis, A.J. DePalo, D.M. Dines (orthopedics), C.R. Dunbar (orthopedics), A.C. Elias (dental and oral), A.R. Ernst, J. Feinberg (plastic surgery), K.B. Field (biochemistry), J.L. Finkelstein, L.A. Fish (urology), G.W. Flint, J.A. Fracchia (urology), S.L. Frantz, M.E. Freund, G.M. Galvin (dental and oral), A.F. Glendinning, L.A. Gordon, J.G. Hansen, S.J. Hershon, R.E. Hertz, K. Kenigsberg, S.M. Koteen (dental and oral), S.B. Labow, L.B. Lane, J.C. Lee (dental and oral), L.R. Levin, R.M. Linsky, M.R. Madden (burn

unit), P.J. Marchisello (orthopedics), C.J. Mauro, D.M. Mazor, J.P. McCarron, Jr. (urology), T.P. McGovern (urology), N.I. Mendell (dental and oral), H. Miller (dental and oral), G.W. Miner (urology), S. Mishkin, A.S. Mishrick, L.J. Mondschein (urology), J.E. Morrison (orthopedics), M.D. Moseson, P.O. Niceta (urology), E.J. Nowak, M.A. Paglia, J.R. Pamilla (orthopedics), E.R. Piccaro (dental and oral), I.B. Prince (dental and oral), L.E. Quitt (dental and oral), T.L. Raftery, J.M. Reckler (urology), K.O. Rothaus, H. Rothenberg, J.E. Rowan (dental and oral), C.K. Saha, B.S. Savits, C.S. Shin, D.C. Silverstein (orthopedics), H.B. Simon (urology), B.D. Sklansky (plastic surgery), I.A. Spira (orthopedics), H. Statman, J.K. Swinburne, F.J. Vagnini, K.P. Velis (orthopedics), J.J. Williams (urology)

Adjunct Assistant Professors of Surgery

J.D. Birkoff (urology), D.R. Buskirk (neurobiology), F.C. Lowe, M.H. Wechsler, R.R. Zelko (orthopedic)

Adjunct Clinical Assistant Professors of Surgery

N.E. Epstein, S. Fortunoff, J. Glasser, U.K. Guarin (urology), S. Kase

Visiting Assistant Professor of Surgery

W.K. Aulitzky

Instructors in Surgery

D.W. Altchek (orthopedics), F.P. Cammisa, Jr., L.H. Durban (cardiothoracic), M.P. Figgie (orthopedics), R.J. Hariri (neurosurgery), R.S. Ingber (rehabilitation medicine), S.M. Keller, S.J. Lahey, T.C. McLure (otorhinolaryngology), G.N. Minoli (dental and oral), S.L. Nori (rehabilitation medicine), G.S. Rosenberg, B.J. Zadeh

Clinical Instructors in Surgery

M.W. Abrams, M.J. Atkiss, H.A. Bade III (orthopedics), F.L. Badillo (urology), S.M. Baum (dental and oral), F.T. Bergan, R.B. Berroya, G.C. Brown (orthopedics), D. Buchbinder (courtesy), J.L. Clarke, J.R. Cole (orthopedics), L.M. Cooper (dental and oral), J.F. Crowe (orthopedics), R.L. Cucin (plastic surgery), R.E. Decker, S.L. Deckoff, D.C. DeRisi, A.R. Deschamps, S.J. Durante (dental and oral), S.M. Erlanger, M.J. Errico, P.M. Gallagher (plastic surgery), V.K. Garg, J.P. Gaston, F.P. Gerold, R.F. Giannandrea (dental and oral), M.R. Glogoff (dental and oral), R.E. Goldberger, J.W.

Guido, J.L. Halpern (dental and oral), A.H. Harris, A.J. Hauser (dental and oral), J.I. Hershman (urology), M.S. Hochberg (dental and oral), G. Imber (plastic surgery), C. Kaplan (dental and oral), R. Karsten (dental and oral), N.M. Katlowitz (urology), K.V. Krishnasastry, K.R. Kurz (urology), G.W. Lee, M.S. Lemchen (dental and oral), S.J. Lentini (dental and oral), S.R. Levin (rehabilitation medicine), D.J. Levine (dental and oral), B.M. Libin (dental and oral), F.M. Lifshey (dental and oral), M.H-H. Loo (urology), I. Madeb (urology), L.J. Marino (dental and oral), T.M. Mauri, D.A. Mayer, T. Meshkati, J.L. Mitchell (dental and oral). P.R. Neumann, E.A. O'Neill, P.D. Pack (dental and oral), M.W. Panio (orthopedics), H.S. Partridge, H. Pearl, D.L. Picard, E.W. Powers III (plastic surgery), J. Prince (dental and oral), A.J. Procaccino, P.H. Pruden (dental and oral), I.M. Rampello (rehabilitation medicine), D.S. Rich (orthopedics), T.D. Rizzo (orthopedics), H.A. Rose, A.D. Rosenthal, S.P. Saltzman (dental and oral), R.L. Salzer, Jr., (orthopedics), G.W. Sanford (dental and oral), N.H. Schulman, R.G. Schwager (plastic surgery), R.E. Schwartz, G. Sferra (dental and oral), J.M. Sherwood, H.B. So, R.M. Sorin (dental and oral), M.G. Steinberg (dental and oral), A.M. Stone, R.J. Strauss, M.K. Sutaria, A.J. Trattler, V.J. Tumminello, S.J. Tunick (dental and oral), E.R. Washington (orthopedics), J.S. Waxler, A.B. White (orthopedics), A.J. Wise, P.L. Ziegler

Visiting Clinical Instructor in Surgery

J.S. Rosen (urology)

Required Courses

SECOND YEAR

Instruction begins in the fourth quarter of the second year. Sessions are provided in general surgical problems as part of the course in physical diagnosis. Instruction is also provided in orthopedic and urologic examination.

THIRD YEAR

The curriculum for the third year provides a core program of clinical instruction in surgery to the student during a twelve-week period. This consolidates all surgical instruction, outside of initial teaching in physical diagnosis in the second year, and leaves the fourth year for elective studies.

The third-year class is divided into four sections. Each quarter provides approximately twelve weeks on the general surgery pavilions with a selection of rotations through the

divisions of thoracic surgery, urology, neurosurgery, ophthalmology, otorhinolaryngology, pediatric surgery, surgical oncology, plastic surgery and orthopedics at North Shore University Hospital and the Memorial Sloan-Kettering Cancer Center. During this time, the student acts as clinical clerk and participates in day-to-day activities in patient care. The student gathers experience by taking complete histories and doing physical examinations. The student also evaluates laboratory determinations on assigned patients and has an opportunity to participate in the preoperative preparation. When the patient is operated on, the student may act as part of the operating team to see at first hand the pathological conditions for which the operation was undertaken. The student attends the rounds held by the residents and members of the senior staff.

Each Wednesday, from 2 to 3 p.m., the chairman of the department has a conference with the student body during which various surgical problems are reviewed. On Mondays and Thursdays, from 2 to 5 p.m., seminars are held in which attending surgeons lecture on surgery and its subspecialties. This schedule provides a broad coverage of surgery in its entirety.

On Monday and Friday afternoons, ward rounds are held by surgeons accompanied by students. These rounds are oriented toward the particular patients and problems available on the floor each time. On Wednesday mornings there is a session in experimental surgery. The students are divided into groups and operations on animals (dogs) are performed under the direction of surgeons. Students alternate as anesthesiologists, surgeons, and assistants during the operations. These operations are performed under strict aseptic conditions and simulate conditions actually encountered in the operating room. The students are responsible for the care of the animal during the preoperative and postoperative periods, writing operative notes, and keeping a log for each operation that is performed. The first week of the surgical clerkship is devoted to otorhinolaryngology and ophthalmology exclusively for clerkship and lectures.

Elective Options

FOURTH YEAR

In the fourth year, the Department of Surgery offers a variety of electives, including experiences in clinical fields as well as in research laboratories. These are fully outlined in the *Fourth Year Course Catalog*. It is at this time that the students have an opportunity to work in the Burn Center to fulfill subinternship selective requirements.





PRIZES

The American Medical Women's Association presents the Janet M. Glasgow Memorial Award to the woman who graduates first in her class, or, the Janet M. Glasgow Memorial Achievement Citations to those female students who graduate in the top 10% of their class. In 1988 Achievement Citations were awarded to Andrea Dobrenis, Elizabeth Israel, and Nina Taggart.

CIBA Award for Outstanding Community Service. This award, a complete set of the Netter Atlas Volumes is offered each year by the CIBA Pharmaceutical Company to the student in the sophomore class who has performed some laudable extracurricular activity within the community. In 1988 the prize was awarded to Harold Chin.

The Clarence C. Coryell Prize in Medicine was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize, financed by the income, is to be awarded annually to the student or students having the highest average in medicine through the junior year. This prize was awarded in the Fall of 1988 to Robert Chin, Todd Egener, Karl Illig, and Elizabeth Israel.

The Clarence C. Coryell Prize in Surgery was also endowed by a bequest from Dr. Coryell. The prize, financed by the income, is to be awarded annually to the student who attains the highest marks in surgery during the third and fourth years. In 1988 this prize was awarded to Andrew Lowy.

Gustavo Cudkowicz Memorial Prize in Immunobiology. This prize was given for the first time in 1983. It was established by the colleagues, friends and family of the late Dr. Gustavo Cudkowicz to perpetuate his interest in immunobiology and medical education. In 1988 this prize was awarded to Andrew Luster.

Dean's Research Prizes. Cash awards are offered to matriculated students in any class for excellence in research. In 1988 these prizes were awarded to Michael Lisanti, Andrew Luster, Karl Illig, Jeffrey Oppenheim, and Gerald Ortiz.

The Oskar Diethelm Prize for Excellence in Psychiatry was established in honor of Dr. Diethelm, who was Chairman of the Department of Psychiatry of Cornell University Medical College from 1936 to 1962. It is awarded annually to the medical student who has demonstrated exceptional interest and ability in psychiatry through research, clinical activities, or scholarly work. In 1988 this prize was awarded to Mitchell Newmark.

The David Drusin Memorial Prize was established by his family and friends to recognize both scholastic achievement in medicine and those intangible human qualities associated with a good physician. The prize is awarded to a student or students who have completed the third clinical year. Candidates for this prize are to be recommended by the Chairman of the Department of Medicine to the Dean of the Medical College at the conclusion of the third year. For 1988 this prize was awarded to Stephen Knope and James Reed.

The Franklyn Ellenbogen Prize in Hematology-Oncology was established by a gift from the Franklyn Ellenbogen, Jr., Memorial Foundation in honor of Ralph L. Nachman, M.D., Professor of Medicine and Chief of the Division of Hematology-Oncology. The income from this endowed fund is used to finance an annual Hematology-Oncology Prize and is given to a fourth-year graduating student who has demonstrated significant evidence of achievement in this field. For 1988 the prize was awarded to Andrew Luster.

Sarah O'Laughlin Foley Prize in Clinical Medicine. Dr. William T. Foley, Emeritus Clinical Associate Professor of Medicine and a member of the class of 1937, established this annual prize in memory of his mother. The recipients, members of the graduating class, are selected for excellence in clinical medicine by the Chairman of the Department of Medicine. For 1988 the prizes were awarded to Robert Chin, Steven Knope, James Reed, and Elizabeth Rubin.

Louis Gibofsky Memorial Prize. This prize is a cash award offered to the medical student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is in memory of Louis Gibofsky. In 1988 this prize was not awarded.

Good Physician Award. A silver desk tray, suitably inscribed and given by Dr. Philip Stimson, is awarded to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "the good physician." For 1988 the award was presented to James Reed.

Charles L. Horn Prize Fund. The income from this fund is awarded each year to a member of the graduating class who has demonstrated outstanding qualities of leadership and service to the medical community. The prize was awarded to Cheryl Pegus in 1988.

Faith Stewart-Gordon Prize for Excellence in Rehabilitative Medicine. The recipient of this prize should demonstrate a sincere interest in a career in Physical Medicine and Rehabilitation and show the most promise to excel in that field. In 1988, the prize was awarded to Jonathan Ruzi.

The Herman L. Jacobius Prize in Pathology was established in 1945 by a gift from Dr. Lawrence Jacobius and his friends in memory of his son Herman L. Jacobius '39, who was killed in action in the Netherlands on September 28, 1944. The income is awarded annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year no student merits the distinction, the award will be withheld. In 1988 this prize was awarded to Phyllis Townsend.

The George Ladas Prize for Efficiency in Gynecology was established by George Ladas, a graduate of the Medical College in 1927, in memory of his mother. The prize is awarded to the medical student who has demonstrated the greatest proficiency in gynecology. In 1988 this prize was awarded to Andrea Dobrenis.

The Dr. Harold Lamport Biomedical Research Prize. A cash award is presented to the medical student who submits the best thesis reporting original biomedical research while a candidate solely for a M.D. degree. The award includes a framed certificate and is in memory of Dr. Harold Lamport, Distinguished Service Professor of Physiology and Biophysics at Mount Sinai School of Medicine. In 1988 this prize was awarded to Stephan Mayer.

The Robert M. Lintz Prize for Efficiency in Rheumatic Diseases was established by Dr. Robert M. Lintz to be awarded to a member, or members of the graduating class for achievement in rheumatic diseases.

Elise Strang L'Esperance Prize. This prize is awarded to that woman student of the graduating class who best reflects the attributes and values of Dr. L'Esperance who served on the faculty of Cornell University Medical College for forty years. In 1988 the prize was awarded to Nina Taggart.

Lemmon Company Outstanding Student Award. This award is given in recognition of achievement by a graduate who has excelled in his or her field of study. The recipient of this prize in 1988 was Elizabeth Israel.

The George S. Meister Prize in Pediatrics has been established in memory of Dr. George S. Meister '26 as an expression of the high esteem in which he was held. The prize consists of income derived annually from an invested fund contributed by members of his family, his close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics. In 1988 this prize was awarded to Margaret Spinelli and Mitchell Newmark.

James A. Moore Prize in Otology. This prize, a silver medal, is awarded to a student for excellence in the field of Otology. Mr. and Mrs. James Stewart-Gordon established this prize in 1986 in honor of Dr. Moore. In 1988 the prize was awarded to Michael Silberberg.

James A. Moore Scholarship is awarded to a student who excels in the field of otorhinolaryngology. In 1988, the prize was awarded to Andrew Diamond.

Alfred Moritz Michaelis Prize for Efficiency in General Medicine. The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from the Medical College on June 11, 1925 and who died during his internship at Mount Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at the Medical College. In 1988 this prize was awarded to Elizabeth Israel, Andrew Luster, and Geoffrey Shapiro.

Gustave J. Noback Memorial Prize in Anatomy. Established in 1962 by Miss Berthe Manent, a graduate of The New York Hospital School of Nursing in memory of Dr. Gustave J. Noback. Dr. Noback will be remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income from this fund is awarded yearly at the discretion of the professor in charge to a student or students who has peformed outstanding work in the field of anatomy. The prize was awarded to William Berg in 1988.

Gustave J. Noback Memorial Fund for Advanced Study and Teaching in the Field of Anatomy. In 1963 a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the chairman. In 1988 this prize was not awarded.

Arthur Palmer Prize for Efficiency in Otorhinolaryngology. This prize is made available from the income of the Arthur Palmer Fund, which was provided by the members of the Department of Otorhinolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who has the best record in this specialty. In 1988 this prize was not awarded.

The Robert F. Pitts Prize has been established by a generous gift of the late Robert F. Pitts, former chairman of the Department of Physiology at Cornell University Medical College and past president of the American Physiological Society. Two prizes, a \$2,500 first prize and a \$1,500 second prize, are offered for research conducted by medical students in the Department of Physiology at Cornell University Medical College. The selection shall be made on the basis of manuscripts submitted to an Awards Committee. This committee consists of the Chairmen of the Department of Physiology at Harvard Medical School and Yale University School of Medicine, the Dean and the Chairman of the Committee of Research Prizes at Cornell University Medical College. The Chairman of the Department of Physiology at Cornell shall act as the chairman of this committee. If the papers submitted are not considered worthy of special commendation, the prize will be withheld. Prizes were awarded to Linda Williams, Elizabeth Narcessian, M.D.('86) and Jeffrey Reich, M.D.('85).

John Metcalf Polk Prizes for General Efficiency. These prizes, financed by the income from an endowed fund, are given in commemoration of John Metcalf Polk '99, who was an instructor in the Medical College at the time of his death. The prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years of study. Only those students who have taken the full course of study at the Medical College are eligible. In 1988 these prizes were awarded to Andrew Diamond, Mitchell Newmark, and Aaron Perlmutter.

Dean William Mecklenburg Polk Memorial Prize. In memory of William Mecklenburg
Polk, M.D., L.L.D., first dean of the Medical
College, two prizes are offered for proficiency
in research to regularly matriculated students of
the Medical College. Members of all classes are
eligible for these prizes.

The awards are made at the end of each academic year for the best report presented, in writing, of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation the prizes will be withheld. In 1988 this prize was awarded to Linda Williams.

Gustav Seeligmann Prizes for Efficiency in Obstetrics. Prizes, financed by the income from an endowment established by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to students of the graduating class who have made the best record in obstetrics. In 1988 the prize was awarded to Edward Jew.

Sondra Lee Shaw Memorial Prize. The income from an endowment fund established by Mrs. Joan S. Friedman in memory of her sister, Sondra Lee Shaw, supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the student who has produced an outstanding research paper in the field of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes and Research. The prize was not awarded in 1988.

The Paul Sherlock Prize in Internal Medicine. This prize, established by the Alpha Omega Alpha chapter of the Class of 1985 and the Cornell University Medical College Alumni Association, honors Dr. Paul Sherlock, Class of 1954, a popular and respected teacher until his death in 1985. The award is presented to the graduating student who is pursuing a career in Internal Medicine and who has demonstrated exceptional integrity and compassion in caring for patients as exemplified by Dr. Sherlock. The recipient is selected by his/her classmates. In 1988 the prize was awarded to James Reed.

Mitchell Spivak Memorial Prize in Pediatrics. Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak '64. The prize, financed by the endowment income, is awarded annually to the member of the graduating class who has made the best record in pediatrics. In 1988 this prize was awarded to Hope Tang.

T. Campbell Thompson Prize for Excellence in Orthopedic Surgery. A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff for the Hospital for Special Surgery established this endowed fund. The income is to be awarded yearly to members of the graduating class who have demonstrated the greatest proficiency in orthopedic surgery. These awards are made by the dean upon recommendation of the faculty members of the Hospital for Special Surgery. In 1988 the prize was awarded to Answorth Allen and Paul Rubery.

The William C. Thro Memorial Prize was established in memory of William C. Thro '01, whose deep interest and devotion to clinical pathology found expression in the teaching and practice of this subject at his alma mater continuously from 1910 to 1938. The income from the endowed prize is awarded to the student who attains the best record in the pathophysiology course. The candidate for the prize is recommended by the professor of pathophysiology. In 1988 the prize was awarded to Patricia Fogarty and Daniel Medalie.

Upjohn Achievement Award. This annual award to a member of the graduating class is given in recognition of outstanding achievement in a basic science. Consisting of a cash award and a plaque, the award is supported by the Upjohn Company. In 1988 this prize was awarded to Nina Taggart.

Weiss Prize for Excellence in Clinical Medicine. The prize was established by Mr. and Mrs. Roger Weiss in 1979 as an expression of the high esteem in which they hold their physician, Dr. Harvey Klein. The cash award is presented to a member of the graduating class who, in the opinion of the committee chaired by Dr. Klein and consisting of the Chairman of the Department of Medicine, the chief resident in medicine and the assistant chief resident in medicine, best exemplifies the qualities necessary for the attainment of outstanding bedside clinical competence in the field of internal medicine. The prize was awarded to Robert Chin and Steven Knope in 1988.

The Anthony Seth Werner, M.D. Memorial Prize was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The prize is awarded annually to a member of the graduating class for excellence in the study of infectious diseases. In 1988 this prize was not awarded.

The Harold G. Wolff Research Prize is presented in memory of the late, famed chief of neurology at The New York Hospital-Cornell Medical Center. The prize, a cash award, is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. In 1988 this prize was awarded to Chadwick Christine.

SCHOLARSHIPS

Through the generosity of many individuals and organizations, endowment incomes and annual gifts provide funds for both scholarships and loans.

Financial information is not a factor in the selection of students at the Cornell University Medical College. Scholarship income is derived from endowed and invested funds and other resources listed below. Awards are made on the basis of financial need. Any student in good standing in the Medical College who has financial need is eligible to apply for assistance. Awards are made for one year only and returning students must reapply each year. The funds listed below are available only to students who have been awarded financial aid.

Vivian B. Allen Scholarship Endowment. Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to provide income to aid needy students of good scholastic standing who otherwise would not be able to complete their medical studies.

Vincent Astor Fund for Medical and Graduate Student Scholarships. The income from this generous endowment from the Vincent Astor Foundation provides financial aid for students at the Medical College and the Graduate School of Medical Sciences.

The Auxiliary of The New York Hospital Scholarship Income from this endowed fund established by the Auxiliary of The New York Hospital provides aid for a third or fourth year medical student with financial need.

David P. Barr, M.D. Fellowship Fund. An annual gift from the Cornell University Medical College Alumni Association honors the late David P. Barr, M.D. '14. Funds provide fellowship support for students involved in research and clinical activities.

Becker Family Scholarship Fund. The income from this endowed fund, established by a generous gift from the estate of Louis Becker, is used to provide scholarships for deserving students.

The Lois and Max Beren Foundation. An annual gift from the Lois and Max Beren Foundation is awarded to a promising student attending the Cornell University Medical College who would find it impossible to attend without financial support.

H. Meredith Berry Scholarship Fund. The income from this endowment fund, established by gifts from Dr. H. Meredith Berry '41, is used to help a needy and deserving student.

Siegfried and Josephine Bieber Scholarship Endowment. The income from the endowment, given by the late Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides financial aid for students in good academic standing who need financial aid.

The John V. Bohrer Scholarship Fund was endowed by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer. Scholarships from the income are awarded to students "who shall express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

Lucien and Ethel Brownstone Merit Medical Scholarship. Generous gifts to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarship. The income from the endowment established by the gift is awarded as a four-year scholarship to one or two students. The donors hope to encourage the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine. The first award was made in 1968.

Mary E.C. Cantle Scholarship Fund. The income from this invested fund, which was established by a bequest from Mary E.C. Cantle, provides scholarships for worthy students in the Medical College.

Lisle C. Carter Scholarship Fund. Income from this fund, established from the estate of Emilie Siebert, is to be used for grants to third-and fourth-year minority students.

Frances N. and John A. Cashman Scholarship Fund. This endowed fund was established by a generous gift from the Trust of Frances Nevins Cashman. The income from this fund provides a scholarship to a woman student who, in the opinion of the faculty, is deserving of such assistance.

Lillian M. Charles Scholarship Endowment. The income from this fund, which was established by a generous gift from the late Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

Class of 1944 Scholarship Fund. The class of 1944 has established an endowed scholarship fund. The income from this endowment is to be used to provide grants to worthy and needy students.

Class of 1946 Scholarship Fund. The class of 1946 has established an endowed scholarship fund. The income from this endowment is to be used to provide grants to worthy and needy students.

Class of 1961 Scholarship Fund. The Class of 1961 has established an endowed scholarship fund. The income from this endowment is to be used to provide grants to worthy and needy students.

E. Craig Coats Scholarship Fund. This fund was endowed by the family of Dr. E. Craig Coats '30, in his memory. Dr. Coats served as a member of the faculty of the Medical College and as an attending urologist at The New York Hospital for many years. Income from the endowment provides scholarship assistance for a third- or fourth-year student, preferably a student with an interest in urology.

Joseph Collins Foundation. Cornell University Medical College is one of the medical schools assisted by the foundation established by Joseph Collins, M.D., a pioneer in the field of neurology. Aid is given to needy medical students with interest in broad fields of learning.

Coppermines Foundation Scholarship Endowment. Income from this endowment, established by a generous gift from the Coppermines Foundation, provides financial assistance for needy and worthy students.

Jean Davidoff and Elizabeth Cohen Scholarship Fund. This endowment was established through a gift by Dr. Harry S. Berkoff '23 in memory of his sisters. The income is available annually to a student, or students, in the third- and fourth-year classes who are in need of financial aid and who, by their scholarship and conduct, have proved worthy of this. Such students should express their willingness and intention to return to the fund the amounts received by them as and when their circumstances permit.

Dean's Special Scholarship Fund. This invested fund was established through the generosity of many contributors. The income is used to provide scholarships for worthy students who are especially in need of financial assistance.

Mehdi Dilmaghani Scholarship. An annual gift in memory of Mehdi Dilmaghani provides financial aid for a needy student.

Kate and Henry Eichel Scholarship Fund. This gift from the estate of Kate Eichel is an invested fund given in memory of Kate Eichel and her brother, Dr. Henry Eichel '07. The investment income provides financial aid for students in need of financial assistance.

Dr. Harry Eno Scholarship Endowment. Established in 1955 by a gift of the late Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

Gertrude and Louis Feil Scholarship Fund. This generous fund was established by the family and friends of Mr. and Mrs. Louis Feil in honor of their parents' fiftieth wedding anniversary. The income is used for financial aid for deserving medical students.

The Jeremiah S. Ferguson Scholarship Fund was established by the Board of Trustees of Cornell University in memory of Jeremiah S. Ferguson. The investment income is awarded annually to a student in the third- or fourthyear classes.

Anthony Ferrara Memorial Scholarship Fund. The mother of Anthony Ferrara and his fellow students and friends established this fund. The investment income provides scholarship assistance to deserving medical students.

Joseph P. Ferrigan Endowment. The income from this endowed fund, established by an anonymous gift, is used to benefit a worthy and meritorious student in need of financial assistance

Eleanor Ruth Gale Fund. Income from a bequest from the estate of Eleanor Ruth Gale provides support for a female graduate of the College of Arts and Sciences of Cornell University who is attending the Medical College.

The Wallace D. Garrabradt Scholarship **Endowment** was established by the late Mabel G. Gormley and the income is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

Anna C. Gossner Memorial Scholarship Fund. An endowed fund has been established by Joseph L. and Simone D. Gossner in memory of Mr. Gossner's mother, Anna C Gossner. The income from this endowment will provide financial support for dedicated students of the Cornell University Medical College who have need.

Roscoe Giles Scholarship Fund. This fund, established by gifts from minority faculty, alumni and friends of the Medical College. provides scholarships for minority students. It honors Roscoe Conkling Giles '15, the first black graduate of Cornell University Medical College, a leader in developing equal rights for physicians and an outstanding surgeon.

The Judge and Mrs. Samuel Jordon Graham Memorial Scholarship Endowment was established by a bequest from the estate of E. Norman P. Graham. The income provides scholarship assistance for deserving students of the Medical College.

Connie M. Guion Scholarship. Providing an annual scholarship to be used toward tuition for a student of the Medical College, the scholarship was established by Ambassador and Mrs. Vincent deRoulet to express their gratitude to the late Dr. Connie Guion '17.

Connie M. Guion Scholarship for Medicine. The Joseph Collins Foundation provides an annual scholarship to a fourth-year student of outstanding merit in honor of the late Dr. Connie M. Guion '17.

Connie M. Guion Fund. Financial aid for women students has been made available by a generous bequest from the estate of Dr. Connie M. Guion '17.

The Haddad Foundation Scholarship. The R.G. Haddad Foundation has made available grants at a number of medical schools to medical students who are United States citizens of Syrian or Lebanese descent and who are in need of financial assistance. The grant is for one year and may be renewed upon applica-

Mary F. Hall Scholarship Endowment. The income from a fund established by a bequest of Miss Mary F. Hall is available to any woman student in the Medical College who needs its aid, who is a bona fide resident of the State of New York, and was such prior to admission to the college.

The Giovanna Maria Harrower Scholarship. A generous bequest from the estate of Giovanna Maria Harrower provides income to support financial aid for deserving medical students at Cornell University Medical College.

Dr. John A. Heim Scholarship Endowment. The income from this fund, which was established under the will of Dr. John A. Heim '05, provides scholarships in the Medical College for students who are in need of financial assistance.

Milton Helpern Fund. A bequest from the late Fritz J. Cramer, M.D. '26 and the late Kate Constable Cramer, M.D. is in memory of the late Milton Helpern, M.D. '26. Income from the fund is to be used to purchase concert tickets for Cornell University Medical College students.

The Irma T. Hirschl Scholarship. The income from a trust under the will of Irma T. Hirschl provides scholarships to needy, outstanding students dedicated to medical science, the easing of pain and the protection of life. Several other medical schools in the city are also beneficiaries under the trust.

Maier and Shantsya Hitzig Scholarship. Through a generous gift, Dr. William M. Hitzig '29 established this endowed scholarship in memory of his father and mother. The income is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

The Dr. Edward Hoenig Scholarship Fund was endowed by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income provides financial assistance to needy and worthy students.

Samuel Hollander Endowment. The income from an endowed fund established by bequest of Dr. Samuel Hollander is awarded to a worthy student for scholarship.

The Ruth Hollohan Scholarship Fund was established under the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The investment income is used for financial aid in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

Elizabeth and Neill Houston Scholarship **Endowment.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. The income from the endowment provides a room-rent scholarship in Olin Hall.

Charles Evans Hughes Memorial Foundation Scholarship Fund. The foundation was established by the late Chauncey L. Waddell on the death of his wife Catherine Hughes Waddell, in memory of her father, Chief Justice Hughes. The generous gift was made to the Medical College to support the effort to meet the financial aid requirements of enrolled minority students.

Professor Andrew Hunter Scholarship. This fund was established by the Maurice H. Givens Trust in honor of the late Professor Andrew Hunter, who was a professor of biochemistry at the Ithaca division of Cornell University Medical College, where Mr. Givens served as Professor Hunter's assistant from 1909-1914. The income from this endowment provides scholarships to needy and worthy students in the Medical College.

Dr. Charles I. Hyde '10 and Eva Hyde Scholarship Endowment. Established by the late Dr. Charles I. Hyde and Mrs. Eva Hyde in memory of her daughter Anita Shirley Hyde, this endowment provides income to meritorious students who have completed one year of the regular medical course and are in need of assistance.

James and Louise Jobe Scholarship Fund. A generous gift from Miss Louise Jobe has endowed the James W. and Louise Jobe Scholarship Fund. Income will be used to provide financial aid to a needy student.

The Dick Katzin M.D. Scholarship Fund was established in 1966 by Dick Katzin '65. The annual gift is used to give financial aid to needy students.

Samuel Farrar Kelley M.D. Scholarship **Fund.** Contributions for this invested fund are being given by Mrs. Lillian E. Kelley in memory of her husband. Income from this fund is available to students in good standing who need financial assistance.

Edwina Kittredge Fund. Income from a bequest from the estate of Edwina Kittredge is available for financial aid for needy students.

William Sargent Ladd Scholarship Fund. Established with gifts from the family of William Sargent Ladd, M.D., Dean of the Cornell University Medical College 1934-1942, this fund provides support for able medical students with financial need.

The Elise Strang L'Esperance Scholarship **Endowment**, established by a bequest from Dr. L'Esperance, provides income for financial assistance for women students at the Medical College.

The Elizabeth C. Lowry Scholarship Fund was established by Dr. Lowry, a member of the class of 1935, in memory of her late husband Dr. Thomas Lowry, who was also a member of that class. The income is used to provide financial assistance to women students in the Medical College.

Martin H. Lutz, M.D. Scholarship Fund. Income from this endowed fund established by a bequest from Martin H. Lutz, M.D., '31, provides financial assistance for students with need.

Clara A. Many Scholarship. Income from this endowed fund, established by a bequest from Mrs. Many, is to be used for aid to a needy fourth-year student who has contributed to the improvement of medical service.

Norman C. Margolius, M.D., Class of 1929 Fund. Income from a bequest from the estate of Norman C. Margolius, B.A. 1929 Cornell University, M.D. 1933 Cornell University Medical College, provides scholarships for students who would not be able to afford medical education without aid.

The Abby Rockefeller Mauzé Trust. A generous gift from The Abby Rockefeller Mauzé Trust will help to support able and needy students for their four years of medical education.

The 1936 and 1939 John and Katherine Mayer Scholarship Funds. The investment income is available annually to meritorious students who need aid and who have completed one or more years of medical college.

Thomas A. McGraw Scholarship Fund. A generous endowed gift from the McGraw Foundation in memory of Thomas A. McGraw, M.D. '51, provides income for scholarship assistance for students at the Cornell University Medical College.

Charles M. McLane Memorial Scholarship. This generous gift was established by the Merlin Foundation. The investment income is

used to provide financial aid for a needy student from the third or fourth-year class whose record reflects dedication and personal achievement of a high order.

Medical College Consolidated Memorial Scholarship. This endowment fund is supported by gifts in memory of individuals. The income is used for scholarships to worthy students.

Medical College Dormitory Fund No. 2.

This invested fund, established by gifts made by the Greater Cornell Campaign, provides income for rent scholarships to be awarded to students residing in the Medical College dormitory.

Joseph H. Merin Scholarship Fund. This fund was established in memory of Joseph H. Merin, M.D.'27, by his wife Jessie G. Merin, M.D.'27 and his children Mary M. Tinkham, Cornell University '56 and Robert G. Merin. M.D.'58. The income is used for a student who majored in the Humanities or Social Sciences in college.

Margaret, Henry, Rosalie, and Henry E.N. Meyer Educational Fund. The income from this very generous trust fund is to be used to pay a portion of the cost of tuition of one or more students selected each year from the entering class. This trust fund was established by a gift from the estate of Henry E.B. Meyer '07, in memory of his parents, his wife, his sisters, and himself.

Li Ming Scholarship Fund. The income from this endowment fund, established by a bequest from the estate of Li Ming, is used for scholarship purposes. Preference is given to students of Chinese birth or descent or nationality, or, if there are no such qualified applicants, other qualified applicants.

Dr. George A. and Nora W. Newton Scholar**ship Endowment.** The income from this fund, which was established by a bequest from the estate of Nora W. Newton, provides a scholarship for a needy and worthy student of the Medical College.

New York Community Trust Scholarship. This grant is provided by the New York Community Trust from a gift received from the late Charles F. Ikle to provide financial assistance to needy students.

The Claire Mann Nordlicht Scholarship.

This fund was endowed by Dr. Stephen Nordlicht in memory of his wife. The income is available annually to assist a needy and gifted student doing work in the field of endocrinology. If in any given year there is no student in need of such assistance, the income may be utilized for research by the Division of Endocrinology.

The Maurice and Cecilia Nordlicht Scholarship Fund. Established by Dr. Stephen Nordlicht, the income is available annually as a scholarship, with preference given to students who have done meritorious work in psychiatry. If in any year, there is no student in need of such assistance, the income may be utilized for research in the Department of Psychiatry.

Evelyn Buckalew Ochester and Charles W. Ochester Memorial Scholarship Fund. This endowment fund was created by Alfred J. and LeMoine R. Buckalew in memory of their sister, Evelyn Buckalew Ochester and her husband Charles W. Ochester. Income from the fund is used to provide financial assistance to worthy students who are in need.

Dr. E. Cooper Person Memorial Scholarship Fund. Friends of the late Dr. Person established this invested scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

John Metcalf Polk Scholarship Endowment. A gift under the will of William Mecklenburg Polk, the first dean of the Medical College, established an endowed fund. The income is used to provide scholarships for students of the Medical College.

R.A. Rees Pritchett, M.D. Scholarship Fund. This fund was established by Mr. Allen D. Fischbach and the Nella Foundation, Inc. in honor of Dr. R.A. Rees Pritchett '48. Funds are used to assist able students with financial need.

Thomas C. Rennie Scholarship Fund. Friends of the late Dr. Rennie, professor of social psychiatry, have set up an endowed fund; a portion of the income is available to students interested in carrying out research work in social psychiatry.

Jessie Ridley Scholarship Fund. This fund was established by the Jessie Ridley Foundation, Inc., and provides scholarships for deserving young men and women to assist them in attending a number of institutions in this country. Financial need and physical handicaps of the individual shall be considered in awarding these scholarships.

Anna E. Ray Robinson Education Fund. The income from this endowed fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for students.

Edgar J. Rosenberg Medical Scholarship **Fund.** The income from this fund, which was established by a bequest to The Society of The New York Hospital, is available to assist needy and worthy students.

Harry and Evelyn F. Rosenthal Memorial Scholarship Fund. The income from this fund is available to assist one or more needy and worthy students who have completed at least one year of study.

Mary Putnam Jacobi-Anna Forest Rowe Scholarship. A bequest from William Vincent Rowe endowed this fund. The income provides financial assistance for women students.

The Louis and Rachel Rudin Scholarship Fund. This annual gift from the Louis and Rachel Rudin Foundation, Inc., is used for a scholarship in recognition of Dr. Lawrence Sonkin and is available to students without regard to age, sex, creed, or race, who demonstrate financial need, who show merit and great promise as students, and who are citizens of the United States

The Dr. Jacques Saphier Scholarship Endowment was established by Dr. Saphier's father, the late Conrad Saphier in memory of Dr. Jacques Conrad Saphier (lieutenant, j.g. U.S.N.R.), class of 1940, who was killed in action. The income is awarded annually to a student of the Medical College who has completed at least one year of study, has financial need and shows merit

Anne and David C. Schilling Scholarship Fund. The income from this endowment fund, established by a bequest from the estate of David C. Schilling, is used to provide first-year scholarships for needy students of high scholarship and character in the Medical College

The Carl J. Schmidlapp Memorial Scholarship Fund was endowed by Dr. Jean Schmidlapp Humes '49 in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded annually to a deserving student in any class of the Medical College, selected on the basis of need and ability.

Dr. Li Shu-Fan Scholarship. An annual gift from Miss Lili Li in honor of her father, Dr. Li Shu-Fan, provides a scholarship to a deserving student with preference to a Chinese student or one of Chinese descent.

Dr. Ida S. Scudder Scholarship. Established in 1982 by the Scudder Foundation, this annual scholarship provides up to \$2,000 to cover the expenses of one Cornell University Medical College fourth-year student on an elective at the Christian Medical College or one of its urban or rural outreach programs in Vellore, India. Ida Scudder was a member of the first graduating class of the Cornell University Medical College in 1899 and founded the Christian Medical College.

Joseph M. Seider Scholarship Fund. This fund, financed by an annual gift from Mr. Seider, provides scholarships for worthy students who are in need of financial assistance

The Thorne Shaw Endowment Scholarship Fund provides the income to support three scholarships. A gift from the estate of Julia Shaw established the endowment. One scholarship is available to students after at least two years of study in the Medical College and two scholarships are available to students after at least one year of study in the Medical College.

The Robert E. Speno Endowment Scholarship Fund was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F.W. Olin Hall is named the Robert E. Speno room, and the income from the endowment provides a room-rent scholarship.

Charles Rupert Stockard Scholarship. An invested fund was established in 1939 by a friend of the late Charles Rupert Stockard, a professor of anatomy in the Cornell University Medical College 1911-39. The income from this fund is to be awarded to either one or two students whose work has shown promise in the Department of Cell Biology and Anatomy and who are desirous of doing advanced work in that department.

Nancy G. Stone Memorial Scholarship Fund. This endowed fund was established by a bequest from the estate of Nancy G. Stone, widow of Dr. Neil C. Stone '25. The income from this fund is used to provide scholarships to worthy students in need of financial assistance.

Robert and Mary Sturdevant Scholarship Fund. Income from a bequest of Mary Sturdevant is to be used to assist a needy student at the Cornell University Medical College with tuition payments each year.

Surdna Foundation Scholarship Fund. The income from this invested fund made possible by a generous gift from the Surdna Foundation provides scholarships to able students in need of financial assistance.

Surdna Foundation Academic Medicine Scholarship. A generous grant from the Surdna Foundation provides income for grants to decrease the debt of talented students interested in careers in research and academic medicine

C.V. Starr Scholarship Fund. A generous gift from the C.V. Starr Foundation provides scholarship support for students with financial need.

The Walter C. Teagle Scholarship Fund. An endowment fund established in 1963 by a very generous gift from the Teagle Foundation, Inc., is a permanent memorial in honor of Mr Teagle, with the recipients of the income from the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is further the desire of the Directors of the Foundation that each student given an award be urged - but in no way required in any legal way - to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College."

Dr. Leona E. Todd Scholarship Endowment. A gift from the estate of Alzina T. Elliott established this endowment fund. The income is to be used for scholarships for women students in the Medical College

Training in Psychiatry Fund. A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course.

Weill-Caulier Scholarship Fund. Income from the estate of Monique Weill-Caulier provides financial aid to students on the basis of financial need, outstanding scholarship and dedication to medical science. Students selected to receive these scholarships will continue to receive aid as long as they meet these criteria.

Dr. Samuel M. Weinreb Medical Scholarship Fund. This endowed fund was established by the family, friends, and former patients of Dr. Samuel M. Weinreb '23 in his memory. The income from this fund is available to a needy fourth-year student who intends to practice in a medically underserved

Lillian E. Weksler Memorial Scholarship. This endowed scholarship, established in memory of Lillian E. Weksler, provides income for the support of a student with financial need who is pursuing a career in biomedical research.

Weld Fund Scholarship. This endowed fund was established by David and Mary Blake Weld. The income provides scholarship assistance for needy students who are in good academic standing.

Phillip G. Woodward Scholarship Fund. The income from this fund, which was established by a bequest to The Society of The New York Hospital from Phillip G. Woodward, is available, to be used for Phillip G. Woodward Scholarships, to be awarded to third- or fourth-year students of the Medical College who have demonstrated interest, initiative, and ability in the fields of psychiatry, neurology and/or behavioral biology.

Mary Louise Wuester Scholarship Endowment. The income from this endowment fund, which was established in memory of his mother by Dr. William O. Wuester '33, is awarded annually to a regularly matriculated student of good scholarship who is in need of financial aid.

George G. Wurzburger Scholarship Fund. A bequest from the late George G. Wurzburger made possible the establishment of this invested fund. Income from the fund provides scholarships for students in need of financial assistance.

Marie and John Zimmermann Scholarship and Loan Fund. The income from this endowed fund, established from a gift from the late Marie Zimmermann and the Marie and John Zimmermann Fund, Inc., is used to aid needy and worthy women students. In addition to endowment income, a generous annual gift is given by the Zimmermann Fund, Inc., for financial aid to needy and worthy women.

Fellowships: M.D.-Ph.D. Program

The Harry E. Gould, Sr., Medical and Graduate Student Scholarship. This fund was established by Mr. Gould's son, Harry E. Gould, Jr., in memory of his father who had a longstanding interest in medicine. The income from this endowment provides financial assistance for students of the Medical College and Graduate School of Medicine.

The Mildred and Emil Holland Scholarship. Income from a gift by the Emil and Mildred Holland Philanthropic Fund of the Jewish Communal Fund is used to provide tuition support for an M.D.-Ph.D. student.

The Frances L. Loeb Medical Scientist Fel**lowships** have been endowed by a gift from Frances L. Loeb and provides support for two M.D.-Ph.D. students at the Cornell University Medical College:

The W.A. Keck Foundation Medical Scientist Fellowship. This award is derived from a generous endowment awarded to Cornell University Medical College and provides support for an M.D.-Ph.D. student.

The Abby Rockefeller Mauzé Medical Scientist Fellowship was established by a gift from the Abby Rockefeller Mauzé Trust. The income provides fellowship support for an M.D.-Ph.D. student.

The Frank R. and Blanche A. Mowrer Memorial Fund. Financial assistance is available from the income of this fund to a student each year enrolled in the Ph.D.-M.D. or M.D.-Ph.D. program.

The Papanicolaou Medical Scientist Fellowship is funded by income from a bequest from Mary G. Papanicolaou in memory of her husband, Dr. George N. Papanicalaou, and by a gift from an anonymous donor to the Cornell University Medical College. The funds provide support for an M.D.-Ph.D. student.

The Surdna Foundation Medical Scientist Fellowship was made possible by a generous grant to the Medical College by the Surdna Foundation. The income from this endowment provides fellowship support for an M.D.-Ph.D. student.

The Iris L. and Leverett S. Woodworth Medical Scientist Fellowship. Funds for the support of an M.D.- Ph.D. student are provided by the income from a generous gift from Dr. Leverett S. Woodworth in his own name and in memory of his wife, Iris L. Woodworth.

Loan Funds

Student Loan Funds. Revolving funds contributed through various sources, including the Kellogg Foundation, the Charles Hayden Foundation, the Student Bookstore, and the Bristol-Myers Fund, are available to students in all classes who are in need of assistance.

The Class of 1923 Loan Endowment. The income from this endowment fund is available as loans to students needing financial assis-

Alumni Association Loan Fund. The Medical College makes loans available to students from a portion of the income from an endowment fund that is provided through the Alumni Association. Students in the upper classes will be given preference.

AMA-ERF. An annual gift from the American Medical Association and Research Foundation is awarded through the New York State Association and includes contributions from the Cornell University Medical College Alumni and friends. This gift is used to provide loans for students qualifying for financial aid

Class of 1945 Loan Fund. The Class of 1945 has established an endowed loan fund. The income from this endowment is to be used to provide loans to worthy and needy students.

Class of 1946 Loan Fund. The Class of 1946 has established an endowed loan fund. The income from this endowment is to be used to provide loans to worthy and needy students.

Class of 1956 Loan Fund. The Class of 1956 has established an endowed loan fund. The income from this endowment is to be used to provide loans to worthy and needy students.

Class of 1960 Loan Fund. The Class of 1960 has established an endowed loan fund. The income from this endowment is to be used to provide loans to worthy and needy students.

Lawrence W. Hanlon Revolving Student Loan Fund. This fund was established by the Medical College in memory of Dr. Lawrence W. Hanlon '38, associate dean of students, who died in 1970. Dr. Hanlon devoted his life to the welfare of the students at the Medical College, and his fund is designed to help continue his good work.

Joseph C. Hinsey Loan Fund. Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund provides funds to students in need of financial assistance.

B.H. Homan, Jr. Revolving Loan Fund. This fund was established by a bequest from Benjamin J. Homan, Jr., and provides low-interest loans to worthy students with financial need.

Jacobs Loan Fund. A generous gift from Samuel Jacobs, supplemented by gifts from other donors, established a revolving loan fund to provide support for students in need of financial assistance.

State and Federal Scholarship and Loan Fund Guaranteed Student Loans. Most students qualify for the Guaranteed Student Loan of 7,500 a year as part of the financial aid package. Applications are available through banks in the student's home state or in New York State which services all Cornell students regardless of state of reidence.

New York Tuition Assistance Program (TAP) is available to New York State residents, depending on family income. Applications are available from the Higher Education Services Corporation, Tower Building, Empire State Plaza, Albany, N.Y. 12255.

The New York State Regents Health Care Scholarships provide support for minority and disadvantaged students who must repay the grant through practice in a shortage area of the State.

Federal Loan Programs. The Medical College participates in the Federal Health Professions and National Direct Student Loan Programs. These loans, based on financial need, are administered through the college and are available only to students eligible for financial aid.

NAMED PROFESSORSHIPS AND ADMINISTRATIVE POSITIONS

The following are named professorships and administrative positions at Cornell University Medical College:

The Stephen and Suzanne Weiss Deanship of the Medical College was established in 1984 through the generous gift of Mr. and Mrs. Stephen H. Weiss. The present occupant of the chair is Dr. G. Tom Shires.

The Joseph F. Artusio, Jr. Professorship of Anesthesiology was established in 1987 by gifts and pledges from the faculty of the Department of Anesthesiology. The professorship is vacant.

The Vincent Astor Distinguished Professorship of Medicine was established in 1982 by a gift from the Vincent Astor Foundation. The first occupant of the chair is Dr. David Zakim.

The Vincent and Brooke Astor Distinguished Professorship in Neuroscience was established in 1984 by a gift from the Vincent Astor Foundation. The first occupant of the chair is Dr. Bernice Grafstein.

The Winifred Masterson Burke Professorship of Rehabilitation Medicine was established in 1971 with a gift from the Winifred Masterson Burke Relief Foundation. The chair is held by Dr. Fletcher H. McDowell.

The Winifred Masterson Burke Professorship of Neurology was established in 1978. The present occupant of the chair is Dr. John P. Blass.

The Bernard and Josephine Chaus Professorship of Urological Oncology was established in 1984 by a gift from Mr. Chaus. The chair is currently vacant.

The James J. Colt Professorship of Urology in Surgery was established in 1970 through a gift from the James J. Colt Foundation. The chair is held by Dr. E. Darracott Vaughan.

The George C. Cotzias Distinguished Professorship of Neurology was established in 1982 by generous gifts from the estate of Mrs. Abby Rockefeller Mauzé and, through the aegis of Dr. Nathaniel Warner, from the estate of Mr. Alfred Jacobsen. Many friends and colleagues also contributed to this professorship which honors the memory of Dr. George C. Cotzias, a distinguished neuroscientist and member of the Medical College Faculty from 1974 until his death in 1977. The first recipient of the chair is Dr. Donald J. Reis.

The Nathan Cummings Professorship in Neurology was established in 1986 through a bequest from the Estate of Nathan Cummings in honor of Dr. Fred Plum, Chairman of the Department of Neurology at the Medical College. The chair is held by Dr. Ira B. Black.

The Livingston Farrand Professorship of Public Health and Preventive Medicine, established in 1944 by gifts from the Milbank Memorial Fund and the Rockefeller Foundation Fund, is named for Livingston Farrand, who was President of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The occupant of the chair is Dr. George G. Reader.

The Dr. Aaron Feder Visiting Professorship of Medicine was established by the late Morris Brecher and his sister, Susan Brecher, in honor of the late Dr. Aaron Feder. The chair is not occupied.

The William T. Foley Distinguished Professorship in Medicine was established in 1984 through the gifts and pledges from patients and friends of Dr. Foley and foundations. The chair is currently vacant.

The Given Foundation Professorship of Obstetrics and Gynecology was established in 1963 with funds from the Irene Heinz Given and the John LaPorte Given Foundation. The foundation's gift was designed to provide endowed support for the chairman of the Department of Obstetrics and Gynecology. Dr. William J. Ledger is the current occupant.

The David J. Greene Distinguished Professorship of Medicine at North Shore University Hospital was established in 1986 and made possible by the generous contributions of Alan I. Greene, his family and the David J. Greene Foundation. The first occupant of the chair is Dr. Lawrence Scherr.

The Stanton Griffis Distinguished Medical Professorship was established in 1976 with funds entrusted to Cornell University for the Medical College by Stanton Griffis, Cornell University '10. The chair is held by Dr. Carl Nathan.

The Gladys and Roland Harriman Professorship of Cardiovascular Medicine was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The occupant of the chair is Dr. Jeffrey Borer.

The Jack Hausman Professorship of Pediatrics at North Shore University Hospital was established in 1983 by the Board of Trustees of North Shore University Hospital and the Board of Trustees of Cornell University. The first recipient of the chair is Dr. Mervin Silverberg.

The Homer T. Hirst III Professorship of Oncology in Pathology was established in 1981 through the bequest of the late Louise G. Hirst in memory of her husband Homer T. Hirst III. The chair is not occupied.

The Barklie McKee Henry Professorship of Psychiatry, established in 1968, honors the memory of the late Mr. Henry, who was president of The Society of The New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry. The chair is held by Dr. Robert Michels.

The Joseph C. Hinsey Professorship of Anatomy was established in 1966 by a gift from Nicholas Noyes. A former Dean of Cornell University Medical College, Dr. Hinsey was director of the Medical Center until his retirement in 1966. The chair is occupied by Dr. Roy C. Swan.

The Johnson & Johnson Distinguished Professorship of Surgery was established in 1972 through a gift from the Johnson & Johnson Associated Industries Fund. The current occupant is Dr. Cleon W. Goodwin, Jr. The B.H. Kean Professorship of Tropical Medicine was established in 1985 in honor of Dr. Benjamin Kean, a distinguished physician who has spent over 30 years at The New York Hospital-Cornell Medical Center. This professorship was funded with gifts from patients and friends. The chair is vacant.

The Harvey Klein Professorship of Biomedical Sciences was established in 1980 by a gift from Mr. Lewis L. Glucksman in honor of Dr. Harvey Klein, a member of the faculty of the Department of Medicine. Dr. Donald A. Fischman occupies this chair.

The Frances and John Loeb Librarianship of Medicine was established in 1984 by a gift from Mr. and Mrs. John L. Loeb. The first occupant is Dr. Robert M. Braude.

The E. Hugh Luckey Distinguished Professorship of Medicine was formally established in 1984 through a gift given to the Medical Center by Mr. Israel Rogosin in 1965 in honor of Dr. Luckey, former chairman of the Department of Medicine, Dean of the Medical College and President of the Medical Center. The chair is occupied by Dr. R. Gordon Douglas, Jr.

The Hilda Altschul Master Professorship of Medicine was established in 1971 in memory of the wife of Dr. Arthur M. Master '21. Endowment of the chair was made possible by gifts from the late Dr. Master; Mr. Arthur M. Master, Jr.; the late Mrs. Herbert H. Lehman, sister of Mrs. Master, and the Overbrook Foundation, whose president was the late Mr. Frank Altschul, Mrs. Master's brother. The present occupant of the chair is Dr. John H.

The Abby Rockefeller Mauzé Distinguished Professorship of Endocrinology in Medicine was established in 1984 by bequests and gifts from the estates of Abby Rockefeller Mauzé and Dorothy C. Shorr and from the Rockefeller family. The first recipient of this chair is Dr. Marvin C. Gershengorn.

The Walsh McDermott University Professorship of Medicine was established in 1986 by a gift from the Robert Wood Johnson Foundation. The first occupant of the chair is Dr. David E. Rogers.

The John Milton McLean Professorship of Ophthalmology was established in 1972 in memory of Dr. McLean who headed the Department of Ophthalmology for twentyseven years. A graduate of the Medical College in 1934, his reputation as an eye surgeon, investigator, and teacher was worldwide. The memorial was initiated by Dr. McLean's former residents, whose inspiration and generosity brought together his patients, associates, and friends whose combined gifts endowed the chair. The current occupant of the chair is Dr. D. Jackson Coleman.

The John D. Mountain, M.D. Professorship of Surgery at North Shore University Hospital was established in 1988 and made possible by the generous contributions of the devoted friends of Dr. John Mountain. The chair is currently vacant.

The Stavros S. Niarchos Professorship of Pediatric Cardiology was established in 1979 by a gift from Mr. Stavros S. Niarchos. Dr. Mary Allen Engle holds this chair.

The R.A. Rees Pritchett Professorship of Microbiology was established in 1981 by a gift from Mr. and Mrs. Arthur B. Belfer, Mr. and Mrs. Robert Belfer, Mr. and Mrs. Lawrence Ruben, Mr. and Mrs. Jack Saltz and the Belfer Foundation in honor of Dr. R.A. Rees Pritchett, a member of the faculty of the Department of Medicine. The present occupant of the chair is Dr. Kenneth I. Berns.

The Irene F. and I. Roy Psaty Distinguished Professorship of Clinical Medicine was established in 1983 by a gift from Mrs. I. Roy Psaty to support the work of an outstanding clinician and teacher at The New York Hospital-Cornell Medical Center. The chair is held by Dr. Jeremiah A. Barondess.

The Revlon Pharmaceutical Professorship of Pharmacology and Toxicology was established in 1979 by a gift from Revlon, Inc. The chair is vacant.

The Israel Rogosin Professorship of Biochemistry was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. The present occupant of the chair is Dr. Alton Meister.

The Joseph P. Routh Professorship of Rheumatic Diseases in Medicine was established in 1985 with a bequest from the estate of Joseph P. Routh, a pledge from Mrs. Routh and additional gifts. The first occupant of this chair is Dr. Charles Christian.

The Edie and Marvin Schur Distinguished Professorship of Obstetrics and Gynecology at North Shore University Hospital was established in 1986 and made possible by the generous contribution of Marvin H. Schur in conjunction with his wife Edie Schur. The first recipient of the chair is Dr. Arnold N. Fenton.

The Saul P. Steinberg Distinguished Professorship of Psychiatry and Public Health was established in 1986 by a gift from Reliance Group Holdings, Inc. The first occupant of the chair is Dr. Robert Millman.

The Sterling Drug Visiting Professorships were established in 1979 by a gift from the Sterling Drug Company in honor of Dr. Walter F. Riker, Jr. The professorships are designed to promote interchange of knowledge in the field of pharmacology. Each visiting professor will spend up to one week at the College, delivering a major lecture and participating in seminars.

The Lewis Atterbury Stimson Professorship of Surgery was established in 1935 by an anonymous gift presented to the Medical College in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. Dr. G. Tom Shires holds this chair.

The William D. Stubenbord Visiting Professorships were established in 1968 by a gift from the Louis Calder Foundation "in memory of Louis Calder, Sr., and Louis Calder, Jr., and in recognition of the outstanding professional service and long friendship of Dr. William D. Stubenbord '31, for them and members of their families." The departments of the College are, in rotation, host to visiting scholars. Each visiting professor resides at the College for approximately one week and in that time delivers a special lecture and holds seminars with faculty and students.

The David D. Thompson Professorship of Pathology at the Medical College was established in 1987 by a gift from the Penzance Foundation. The first occupant of the chair is Dr. John T. Ellis.

The Anne Parrish Titzell Professorship of Neurology was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum.

The Maxwell M. Upson Professorship of Physiology and Biophysics, established in 1970, honors the memory of Mr. Upson who had been a member of the Cornell University Board of Trustees for thirty-five years. The present occupant of the chair is Dr. Erich E. Windhager

The Harold and Percy Uris Professorship of Reproductive Biology was established in 1976 with a gift from the Uris Brothers Foundation. Dr. J. Michael Bedford occupies this chair.

The Harold and Percy Uris Professorship of Pediatric Endocrinology and Metabolism was established in 1978 with a gift from the Uris Brothers Foundation. The first recipient of the chair is Dr. Maria I. New.

The Bruce Webster Professorship of Internal Medicine was established in 1977 with a bequest from the estate of Dr. Bruce Webster, a member of the faculty, and gifts from Mr. Roy E. Larsen and Dr. Webster's sister, Mrs. Flora Shefrin. The chair is currently held by Dr. Edward D. Crandall.

The Harold Weill Professorship of Pediatric Hematology in Pediatrics was established in 1987 through the gifts and pledges of colleagues and friends of Mr. Weill. The first occupant of the chair is Dr. Margaret W. Hilgartner.

The Irving Sherwood Wright Professorship of Geriatrics, the first endowed chair in geriatrics in the United States, was established in 1978 by a gift from the E. Roland and Gladys Harriman Foundation in honor of Dr. Wright, a member of the faculty. The first occupant of the chair is Dr. Marc E. Weksler.

Form of Gifts and Bequests

Gifts and bequests are an important source of funding for the Medical College. If it is desired that a gift or bequest shall be used in whole or in part for any specific purpose in connection with the Medical College, such use may be specified.

If a bequest is made to the Medical College the language may be: "I give and bequeath to Cornell University the sum of \$_____ for use in connection with its Medical College in New York City."

If a bequest is made to the Medical Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Fund, Inc., the sum of \$_____.

Further information about making a gift or bequest may be obtained from the Dean or Secretary of the Medical College.

ADMINISTRATION

Cornell University

Frank H.T. Rhodes, President of the University Robert Barker, University Provost

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Richard M. Ramin, Vice President for Public Affairs

Walter J. Relihan Jr., University Counsel and Secretary of the Corporation

James A. Sanderson, Chief Investment Officer

The New York Hospital-Cornell Medical Center

The center was formed by an agreement between The Society of The New York Hospital and Cornell University in order to associate clinically the Hospital and the Medical College and to effect a complete coordination of the medical, educational and scientific activities of the two institutions. The center includes not only New York Hospital, but also the Graduate School of Medical Sciences of Cornell University.

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Gordon F. Fairclough, Jr., Associate Dean (Student Affairs and Admissions)

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Patricia Flamm, Associate Dean (Human Resources)

Fletcher H. McDowell, Associate Dean (Burke Rehabilitation Center)

Lawrence Scherr, Associate Dean (North Shore University Hospital)

Gregory W. Siskind, Associate Dean (Research and Sponsored Programs)

Idaehla Antosik, Assistant Dean (Academic Affairs) and Registrar

Robert M. Braude, Assistant Dean (Information Resources) and Librarian

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Stephen S. Scheidt, Assistant Dean (Continuing Education)

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STANDING COMMITTEES

Admissions: recommends Medical College admissions policy to the faculty and dean; recruits and selects new students.

Members: Gordon F. Fairclough, Jr., chairman, Joshua Adler, Rosemary Bachvarova, Bruce L. Ballard, Diane E. Bloomfield, Adele Boskey, John L. Brown, Maureen Connelly, William C. Cooper, James Cornell, Jessica Davis, Lewis Drusin, Thomas J. Fahey, Jr., Domenick J. Falcone, Arthur W. Feinberg, Charles Flowers, Ruth Graver, Margaret Hertzig, Charles E Inturrisi, Marilyn G. Karmason, Thomas King, Alfred N. Krauss, Mark G. Kris, Shari Midoneck, Carlyle Miller, Ralph L. Nachman, Carol K Petito, Gene Resnick, Enrique Rodriguez-Boulan, Allan Rutzen, Leslie Saint Louis, Diana L. Santini, Robert I. Sassoon, Daniel Sterman,

Carol L. Storey-Johnson, Suresh S. Tate, Alan Weinstein, Giles F. Whalen, Patricia Winchester.

Continuing Medical Education: reviews all educational activities seeking CME credit from the Medical College.

Members: Stephen S. Scheidt, chairman; David V. Becker, John L. Brown, John M. Davis, Herbert L. Erlanger, Aaron H. Esman, Fima Lifshitz, Ralph I. Lopez, Hart DeC Peterson, George G. Reader, Jack Richard, Diane G. Thomson, Lila A. Wallis; Associate Members: Morris Jampol, Robert G. Lahita.

Curriculum: responsible for the curriculum of the Medical College: its content, method of teaching and periodic evaluation and revision.

Members: Daniel R. Alonso, chairman; Joseph F. Artusio, Jr., Kenneth I. Berns, Walter W. Y Chan, John T. Ellis, William J. Ledger, Rudolph L. Leibel, Alton Meister, Robert Michels, Joel D. Pardee, George G. Reader, Richard B. Roberts, W. Schain Schley, G. Tom Shires, Jonathan D. Victor, Robert A. Weiss, Patricia H. Winchester, Erich E. Windhager, and one student representative from each class.

Financial Aid Committee: assists in setting financial aid policy; oversees the awarding of Cornell grants and loans and develops new approaches to financing.

Members: Joan M. May, chairman; Bruce L. Ballard, Philip S. Barie, Diane E. Bloomfield, John J. Caronna, Gordon F. Fairclough, Jr., John J. Ferry, Jr., William A. Frosch, Philip V. Giuca, Eleanor Mintz, Jack Richard, Calvin W. Roberts, Michael Snyder

Human Rights in Research: reviews and gives prior approval for experimentation involving human subjects to ensure that all scientific that clinical investigations are of the highest ethical and scientific merit.

Members: Philip S. Barie, M.D. chairman; Phyllis August, H. Richard Beresford, Paula W. Brill, Robert G. Campbell, Thomas A. Caputo, David Case, Richard Fichtl, Rabbi Israel Francus, John E. Franklin, Barry J. Hartman, James R. Hurley, Patricia Keill, James H. Koscis, Alfred Krauss, Jerome M. Leitner, Aaron R. Levin, Leonard Shankman, Peter G. Wilson.

Institutional Animal Care and Use: oversees all animal care facilities and reviews and grants prior approval to all research protocols involving the use of animals.

Members: Jeri A. Sechzer, chairman; Hai T. Nguyen, co-chairman; Peter Dineen, Daniel Gomez, Cleon W. Goodwin, Donald D. Grubman, Joseph E. LeDoux, Jr., Roberto Levi, David D. Myers, Jonathan Weil.

Joint Committee on Information Management: explores cooperative efforts with other institutions and recommends and reviews specific plans for applications in the life sciences and medical education.

Members: William W. Frayer, chairman; Daniel R. Alonso, Olaf S. Anderson, Robert Braham, Patrick Cahill, Daniel Gardner, Martin Gardy, Jerald D. Gass. Peter M. Guida, Wilbur D. Hagamen, David B. Hayt, James P. Hollenberg, Eric A. Jaffe, David E. Levy, James B. Wallis, Carl F. W. Wolf, Pat B. Zanzonico. Ex officio: Lee Arnold, Robert M. Braude, Edward C. Burke, John DeStefano, Nancy Farrell, Fred

Library: provides advice on policy, acquisitions and long range planning of the library.

Members: E. Darracott Vaughan, Jr., chairman; Daniel Alonso, R. Hal Baker, Jeanne Becker, Scott B. Berger, James DiSanto, William Frayer, Bernard L. Horecker, Paul Kligfield, Betty Smith. Ex officio: Robert M. Braude, Carolyn

M.D. with Honors in Research: advises candidates, reviews dissertations and hears oral presentations for the M.D. with Honors in Research degree.

Members: Eric A. Jaffe, chairman; Anthony Antonacci, Sigurd H. Ackerman, Francis Barany, Carl Becker, Charles L. Christian, Marvin Gershengorn, Bernice Grafstein, Owen Griffith, David P. Hajjar, Roberto Levi, Donald Reis, Enrique Rodriguez-Boulan.

Postgraduate Education Advisory: advises fourth year students on residency programs.

Members: Daniel R. Alonso, chairman; Harvey Aiges, Stuart S. Asch, Steven A. Atlas, Philip S. Barie, Diane E. Bloomfield, Robert J. Cody, Jr., Arnold M. Cooper, William T. Curry, Jessica G. Davis, John M. Davis, Jerome J. DeCosse, Richard B. Devereux, Lewis M. Drusin, Maurice Druzin, Paul J. Edelson, Edwin Ettinger, William A. Frosch, Richard Fuchs, Martin Gardy, William Griffo, Melvin Horwith, John Milton Hutson, O. Wayne Isom, Ira Jacobson, Warren D. Johnson, Jr., Lawrence J. Kagen, Robert P. Kimberly, Robert Kurtz, Carlyle H.

Miller, Kevin P. Morrissey, Jeffrey W. Moses, Ralph L. Nachman, John E. O'Loughlin, Mark S. Pecker, Peter M. Reiser, Richard S. Rivlin, Patricia Romano, Ingrid K. Rosner, Joseph T. Ruggiero, Charles A. Santos-Buch, Theodore Shapiro, G. Tom Shires III, Michael F. Silane, Roy L. Silverstein, Phyllis W. Speiser, E. Thomas Steadman, Richard Stern, Diane E. Stover, William T. Stubenbord, Virginia Susman, Kenneth Tardiff, Yvonne S. Thornton, E. Darracott Vaughan, Jr., Milton Viederman, James B. Wallis, George E. Wantz, Aaron O. Wells, John C. Whitsell, Roger W. Yurt Consultants: Joseph F. Artusio, Jr., Bruce L. Ballard, Alan S. Berkeley, Charles N. Cornell, Peter Dineen, John A. Evans, Arthur W Feinberg, Francis W. Gamache, Jr., Ronald F. Green, Rudolph L. Leibel, Peter Odell, George G. Reader, Robert W. Selfe.

Review: reviews and recommends for approval faculty appointments, promotions and granting of tenure.

Members: John T. Ellis, chairman; Rosemary Bachvarova, H. Richard Beresford, Walter Chan, D. Jackson Coleman, John Davis, Mary Allen Engle, William Fair, David Hajjar, William Ledger, Marcus Reidenberg, Richard Roberts, James P. Smith, Erich Windhager

Student Research: advises students concerning research projects and judges annual student research competition.

Members: C. Richard Minick, chairman; Richard B. Devereux, Rudy H. Haschemeyer, Bernard L. Horecker, Lawrence J. Kagen, Roberto Levi, Martin Sonnenberg, Babette B. Weksler, Marc E. Weksler.

Following page: First year students with Dr. Wilbur D. Hagamen, Professor of Cell Biology and Anatomy.



FACULTY OF THE MEDICAL COLLEGE*

- Aarons, Shelley. Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1974, Sarah Lawrence College; M.D. 1979, State University of New York Health Science Center at Brooklyn.
- Abbott, Gerald F. Clinical Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital. B.S. 1968, Northwestern University; M.D. 1971, Cornell University Medical College.
- Abel, Henriette E. Clinical Assistant Professor of Medicine. Clinical Affiliate, New York Hospital. B.A. 1955, Vassar College; M.D. 1959, Cornell University Medical College.
- Abel, Robert R. Clinical Assistant Professor of Medicine. Clinical Affiliate, New York Hospital. A.B. 1952, Princeton University; M.D. 1956, Cornell University Medical College.
- Abramowicz, Helen Kaufman. Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. A.B. 1964, Smith College; M.D. 1968, Albert Einstein College of Medicine of Yeshiva University.
- Abrams, Martin William. Clinical Instructor in Surgery. Assistant Attending Surgeon, North Shore University Hospital. B.S. 1948, Rutgers State University; M.D. 1954, Chicago Medical School.
- Abrams, Robert C. Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1972, University of California, Berkeley; M.D. 1976, Mount Sinai School of Medicine.
- Abramson, David Harold. Clinical Professor of Ophthalmology. Attending Ophthalmologist, New York Hospital. Consultant, Memorial Sloan-Kettering Cancer Center. B.A. 1965, Harvard University; M.D. 1969, Albert Einstein College of Medicine of Yeshiva University.
- Abramson, Ruth Gail. Adjunct Professor of Physiology and Biophysics. A.B. 1955, University of Pennsylvania; M.D. 1959, State University of New York Health Science Center at Brooklyn.
- Acker, Peter Jeffrey. Clinical Instructor of Pediatrics in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1974, Oberlin College; M.D. 1982, Sackler School of Medicine (Israel).
- Ackerman, Sigurd H. Associate Professor of Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1962, Harvard University; M.D. 1966, Tufts University School of Medicine.
- Ackert, Gregory Mark. Clinical Instructor in Medicine.
 Assistant Attending Physician, North Shore
 University Hospital. B.S. 1973, St. John's
 University; M.D. 1978, New York University
 School of Medicine.
- Acosta, Alberto Miguel. Instructor in Medicine. Instructor in Pathology. Assistant Attending Physician, New York Hospital. B.A. 1978, Columbia University; M.D. 1985, Cornell University Medical College; Ph.D. 1985, Cornell University Medical College.
- Adams, Donald. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1967, Swarthmore College;
- * Please note that changes in appointments and promotions in the Faculty of the Medical College effective after May 15,1988 may not be reflected on this list.

- M.D. 1971, State University of New York Health Science Center at Brooklyn.
- Addonizio, Gerard C. Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1974, Columbia University; M.D. 1978, Columbia University College of Physicians and Surgeons.
- Adler, Álvin Leonard. Clínical Instructor in Medicine. Clinical Affiliate, New York Hospital. B.S. 1973, University of Wisconsin, Madison; M.D. 1977, Albert Einstein College of Medicine of Yeshiva University.
- Adler, Joshua Elihu. Associate Professor of Neurology. Associate Attending Neurologist, New York Hospital. B.A. 1969, Yeshiva University; M.D. 1975, University of Pennsylvania School of Medicine; Ph.D. 1975, University of Pennsylvania.
- Advocate, Seymour. Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1937, Brooklyn College, City University of New York; M.A. 1938, University of Illinois; M.D. 1950, Washington University Medical Center.
- Aguilar, Federico. Clinical Instructor in Pediatrics.
 Attending Physician, Catholic Medical Center of
 Brooklyn and Queens. M.D. 1980, University of
 Cayey School of Medicine (Puerto Rico).
- Ahrens, Edward H. Adjunct Professor of Medicine. B.S. 1937, Harvard University; M.D. 1941, Harvard Medical School.
- Aiges, Harvey W. Associate Professor of Clinical Pediatrics. Attending Pediatrician, North Shore University Hospital. B.A. 1967, Brooklyn College, City University of New York; M.D. 1971, New York Medical College.
- Akman, Wilhelmina Valencia. Assistant Professor of Medicine in Psychiatry. Assistant Attending Physician in Psychiatry, New York Hospital. M.D. 1964, University of Santo Tomas (Philippines).
- Albert, Gary H. Clinical Instructor in Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. B.A. 1967, Hofstra University; M.D. 1972, New York Medical College.
- Albert, Steven Alan. Clinical Assistant Professor of Radiology. Assistant Attending Radiologist, New York Hospital. B.S. 1976, State University of New York at Albany; M.D. 1980, Medical College of Virginia.
- Alcena, Valiere. Clinical Instructor of Medicine in Psychiatry (Courtesy). Clinical Affiliate, New York Hospital. B.A. 1970, Queens College, City University of New York; M.D. 1973, Albert Einstein College of Medicine of Yeshiva University.
- Alderman, Michael Harris. Adjunct Professor of Medicine. Adjunct Professor of Public Health. Attending Physician, New York Hospital. B.A. 1958, Harvard University; M.D. 1962, Yale University School of Medicine.
- Aledort, Louis M. Adjunct Professor of Medicine. B.S. 1955, Queens College, City University of New York; M.D. 1959, Albert Einstein College of Medicine of Yeshiva University.
- Ales, Kathy Lynne. Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1974, Yale University; M.D. 1978, Yale University School of Medicine.
- Alexander, James S. Clinical Assistant Professor of Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. B.A. 1953, Georgetown

- University; M.D. 1957, Georgetown University School of Medicine
- Alexopoulos, George S. Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. M.D. 1970, National University of Athens Faculty of Medicine
- Allen, Judd Robert. Instructor in Public Health. B.A. 1981, Vassar College; M.A. 1982, New York University; Ph.D. 1985, New York University
- Allen, Patricia Y. Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1972, University of Louisville; M.D. 1976, University of Louisville School of Medicine.
- Allen, Steven Lee, Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1973, City College, City University of New York; M.D. 1977, Johns Hopkins University School of Medicine
- Almeida, Iris Marie. Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, M.B.B.S. 1962, Grant Medical College of Bombay University (India).
- Alonso, Daniel Ramon. Senior Associate Dean. Professor of Pathology. Attending Pathologist, New York Hospital. M.D. 1962, University Nacional de Cuyo Faculty of Medicine (Argentina).
- Alonso, Maria Lita. Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital, M.D. 1968, Faculty of Medicine Nacional de Cordoba (Argentina).
- Altchek, David Wilson. Instructor in Surgery (Orthopedics). Assistant Attending Surgeon (Orthopedic Surgery), Hospital for Special Surgery. Assistant Attending Surgeon, New York Hospital. B.A. 1978, Columbia College; M.D. 1982, Cornell University Medical College.
- Altman, Roman. Clinical Instructor in Psychiatry. Assistant Attending Psychiatrist, North Shore University Hospital. M.D. 1975, I.P. Pavlov Medical Institute, Leningrad (U.S.S.R.)
- Altman, Stuart J. Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. A.B. 1970, Franklin and Marshall College; M.D. 1974, State University of New York Health Science Center at Brooklyn.
- Altorki, Nasser Khaled. Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. M.B.B.Ch. 1977, University of Cairo, Mansura Medical School (Egypt)
- Amberson, James Burns. Assistant Professor of Pathology. Assistant Attending Pathologist, New York Hospital. B.A. 1973, Wesleyan College; M.D. 1977, Johns Hopkins University School of Medicine.
- Ameisen, Olivier Patrick. Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. M.D. 1983, University of Paris, Cochin Medical School (France)
- Amer, Jeffrey A. Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. B.S. 1977, Rensselaer Polytechnic Institute; M.D. 1981, Jefferson Medical College.
- Amoona, Raphael. Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, North Shore University Hospital. M.D. 1965, Pahlavi University (Iran).

- Anand, Vijay Krishnamurthy. Clinical Assistant Professor of Otorhinolaryngology. Assistant Attending Otorhinolaryngologist, New York Hospital. M.B.B.S. 1973, Madras Medical College, University of Madras (India).
- Andersen, Olaf Sparre. Professor of Physiology and Biophysics. M.D. 1971, Copenhagen University Faculty of Medicine (Denmark)
- Anderson, Lowell L. Associate Professor of Physics in Clinical Radiology. Attending Physicist, Memorial Sloan-Kettering Cancer Center. B.S. 1953, Whitworth College; Ph.D. 1958, University of Rochester.
- Anderson, Mary E. Instructor in Biochemistry. B.A. 1977, Hollins College; Ph.D. 1983, Cornell University.
- Anderson, William A. Clinical Associate Professor of Medicine. Clinical Affiliate, New York Hospital. Adjunct Attending Staff, Memorial Sloan-Kettering Cancer Center. B.S. 1942, Tuskegee Institute; M.D. 1953, University of Michigan Medical School.
- Andreeff, Michael. Associate Professor of Medicine. Assistant Attending Physician, Memorial Sloan-Kettering Cancer Center. Assistant Attending Hematopathologist, Memorial Sloan-Kettering Cancer Center. M.D. 1968, University of Heidelberg (West Germany); Ph.D. 1976, University of Heidelberg (West Germany)
- Antonacci, Anthony. Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. Adjunct Attending Staff, Memorial Sloan-Kettering Cancer Center. B.S. 1973, Georgetown University; M.D. 1977, Georgetown University School of Medicine
- Antonovsky, Anna M. Adjunct Assistant Professor of Psychology in Psychiatry. Assistant Attending Psychologist, New York Hospital. B.A. 1944, Brooklyn College, City University of New York; M.S. 1951, Yale University; Ph.D. 1955, Yale University
- Apostolopoulos, Athanasia. Clinical Instructor in Medicine. Clinical Affiliate, New York Hospital. B.S. 1974, City College, City University of New York; M.D. 1978, Mount Sinai School of Medicine.
- Appelbaum, Ann Halsell. Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1946, University of California, Berkeley; M.D. 1950, State University of New York Health Science Center at Brooklyn.
- Appelbaum, Daniel Marc. Clinical Instructor in Medicine. B.A. 1978, Brooklyn College, City University of New York; M.D. 1982, State University of New York Health Science Center at Brooklyn.
- Appelbaum, Jerome. Clinical Assistant Professor of Medicine. Assistant Attending Physician, North Shore University Hospital, B.A. 1954, Hobart and William Smith College; M.D. 1959, University of Rome (Italy).
- Applegarth, Linda Davis. Clinical Instructor of Psychology in Obstetrics and Gynecology. B.A. 1969, University of Kansas; Ed.M 1971, Boston University; Ed.D. 1975, Boston University.
- Appleton, Abraham Theodore. Assistant Professor of Surgery, Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. Assistant Attending Surgeon (Orthopedic Surgery), New York Hospital. Attending Surgeon (Orthopedic

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Arango, Victoria. Instructor in Neurology. Instructor of Neurobiology in Psychiatry. B.A. 1973, College of New Rochelle; Ph.D. 1982, State University of New York Health Science Center at Brooklyn.

Arbit, Ehud. Associate Professor of Surgery. Associate Attending Surgeon, Memorial Sloan-Kettering Cancer Center. M.D. 1973, Tel Aviv University Medical School (Israel).

Arena, Francis Peter. Clinical Assistant Professor of Medicine. Senior Assistant Attending Physician, North Shore University Hospital. Adjunct Attending Staff, Memorial Sloan-Kettering Cancer Center. Clinical Affiliate, New York Hospital. B.S. 1970, Fordham University; M.D. 1975, Cornell University Medical College.

Argyle, Nicholas. Visiting Instructor in Psychiatry.
Visiting Attending Psychiatrist, New York Hospital.
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University (United Kingdom); M.A. 1980,
Cambridge University (United Kingdom).

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York Health Science Center at Brooklyn.

Armbruster, Robert George. Clinical Assistant Professor of Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1969, University of Notre Dame; M.D. 1977, Washington University Medical Center.

Armbruster, Thomas John. Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1975, Adelphi University; M.D. 1979, Washington University Medical Center.

Armstrong, Donald. Professor of Medicine. Attending Physician, Memorial Sloan-Kettering Cancer Center. Attending Physician, New York Hospital. A.B. 1953, Lehigh University; M.D. 1957, Columbia University College of Physicians and Surgeons.

Arnoczky, Steven Paul. Associate Professor of Comparative Orthopedics in Surgery. D.V.M. 1972, Ohio State University.

Aronian, Dianne D. Clinical Assistant Professor of Ophthalmology. Assistant Attending Ophthalmologist, New York Hospital. B.S. 1962, Westminster College; M.D. 1972, Cornell University Medical College.

Aronian, John Martin, III. Assistant Professor of Clinical Surgery. Assistant Attending Surgeon, New York Hospital. A.B. 1962, University of Pennsylvania; M.D. 1967, Hahnemann Medical College.

Aronne, Louis Joseph. Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.S. 1977, Trinity College; M.D. 1981, Johns Hopkins University School of Medicine.

Aronow, Eugene Morton. Clinical Instructor in Medicine. Senior Assistant Attending Physician, North Shore University Hospital. B.S. 1954, Northwestern University; M.D. 1957, Northwestern University Medical School.

Artusio, Joseph F., Jr. Professor Emeritus of Anesthesiology (chairman). Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's College; M.D. 1943, Cornell University Medical College.

Asch, Adam Steven. Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1974, Swarthmore College; M.D. 1979, Jefferson Medical College.

Asch, Jane Elizabeth. Clinical Instructor in Psychiatry.
Clinical Affiliate, New York Hospital. A.B. 1974,
Harvard University; M.D. 1981, Yale University
School of Medicine.

Asch, Stuart S. Professor of Clinical Psychiatry.
Attending Psychiatrist, New York Hospital. B.A.
1943, Columbia University; M.D. 1945, Columbia
University College of Physicians and Surgeons.

Ascheim, Robert S. Clinical Associate Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1958, Yale University; M.D. 1962, Tufts University School of Medicine.

Ascher, Robert C. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. M.D. 1949, Long Island College of Medicine.

Asnis, Stanley E. Clinical Associate Professor of Surgery. Attending Surgeon, North Shore University Hospital. M.D. 1968, Washington University Medical Center.

Astrachan, John Mann. Clinical Associate Professor of Psychiatry. Clinical Associate Professor of Psychiatry in Obstetrics and Gynecology. Associate Attending Psychiatrist, New York Hospital. Associate Attending Psychiatrist in Obstetrics and Gynecology, New York Hospital. B.A. 1949, Alfred University; M.D. 1953, New York Medical College.

Atkinson, Barbara McHeffey. Assistant Professor of Pathology. Attending Pathologist, North Shore University Hospital. B.A. 1972, Annhurst College; M.D. 1976, Universidad Autonoma de Guadalajara (Mexico).

Atlas, Steven Alan. Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1968, Johns Hopkins University; M.D. 1971, Johns Hopkins University School of Medicine.

Attiyeh, Fadi. Clinical Assistant Professor of Surgery. Adjunct Attending Staff, Memorial Sloan-Kettering Cancer Center. B.S. 1965, American University of Beirut (Lebanon); M.D. 1969, American University of Beirut (Lebanon).

Attkiss, Michael J. Clinical Instructor in Surgery.
Assistant Attending Surgeon, North Shore
University Hospital. A.B. 1960, Harvard University;
M.D. 1964, Columbia University College of
Physicians and Surgeons.

Auchincloss, Elizabeth Lowell. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.A. 1973, Yale

- University; M.D. 1977, Columbia University College of Physicians and Surgeons.
- Auchincloss, Sarah. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. Adjunct Attending Staff, Memorial Sloan-Kettering Cancer Center. B.A. 1971, Harvard University; M.D. 1976, Yale University School of Medicine
- Auerbach, Arleen D. Adjunct Assistant Professor of Genetics in Pediatrics. B.A. 1957, William Smith College; M.A. 1958, Columbia University; Ph.D. 1977, New York University
- Auh, Yong Ho. Clinical Associate Professor of Radiology, M.D. 1972, Seoul National University of Medicine (Korea).
- Auld, Peter A. McF. Professor of Pediatrics. Professor of Perinatal Medicine in Obstetrics and Gynecology. Attending Pediatrician, New York Hospital. B.A. 1948, University of Toronto (Canada); M.D. 1952, McGill University College of Medicine (Canada).
- Aulitzky, Wolfgang Karl. Visiting Assistant Professor of Surgery. M.D. 1977, University of Innsbruck Medical School (Austria)
- Avery, Christine Ann. Assistant Professor of Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1972, University of Houston; M.D. 1976, University of Texas Health Sciences Center, Houston.
- Axel, Peter J. Clinical Assistant Professor of Pediatrics. Attending Pediatrician, North Shore University Hospital, B.A. 1957, Hofstra University: M.A. 1958, Hofstra University; M.D. 1962, Chicago Medical School.
- Bachvarova, Rosemary F. Associate Professor of Cell Biology and Anatomy, B.A. 1961, Radcliffe College; Ph.D. 1966, Rockefeller University.
- Bade, Harry August, III. Clinical Instructor in Surgery (Orthopedics). Orthopedic Surgeon to Out-Patient Department, Hospital for Special Surgery. B.S. 1968, University of Pennsylvania; M.D. 1976, Jefferson Medical College.
- Bader, David Mansfield. Associate Professor of Cell Biology and Anatomy. B.A. 1974, Augustana College; Ph.D. 1978, University of North Dakota.
- Badillo, Felix L. Clinical Instructor in Surgery (Urology). Assistant Attending Surgeon (Urology), New York Hospital. Assistant Attending Surgeon, North Shore University Hospital. M.D. 1978, Cornell University Medical College.
- Baer, Ralph August. Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. A.B. 1955, Princeton University; M.D. 1959, Cornell University Medical College.
- Bagaria, Surendra Kumar. Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1970, P.K. Roy Memorial College (India); M.B.B.S. 1978, Nalanda Medical College, Patna (India).
- Bailey, Scott Higgins, Clinical Instructor in Obstetrics and Gynecology. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1979, New York University; M.D. 1983, State University of New York at Stony Brook Health Science Center.
- Bains, Manjit S. Associate Professor of Clinical Surgery, Associate Attending Surgeon, Memorial Sloan-Kettering Cancer Center. M.B.B.S. 1963, All India Institute of Medical Sciences.

- Bajorin, Dean F. Instructor in Medicine. Clinical Assistant Physician, Memorial Sloan-Kettering Cancer Center. B.A. 1973, College of the Holy Cross; M.D. 1978, New York Medical College.
- Bajorunas, Daiva Regina. Associate Professor of Clinical Medicine. Associate Attending Physician, Memorial Sloan-Kettering Cancer Center. Assistant Attending Physician, New York Hospital. M.D. 1971, University of Michigan Medical School.
- Baker, Eli. Assistant Professor of Public Health. B.A. 1974, Brooklyn College, City University of New York; Ph.D. 1984, City University of New York Graduate School and University Center.
- Baker, Harriet. Associate Research Professor of Neurology, B.A. 1963, Wells College; M.S. 1967, University of Illinois; Ph.D. 1976, University of lowa
- Baker, Paul Mark. Clinical Instructor in Pediatrics. Assistant Attending Pediatrician, New York Hospital. B.S. 1971, Davidson College; M.D. 1975, Cornell University Medical College.
- Baker, Ralph David. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. B.S. 1948, University of Akron; M.D. 1956, University of Paris (France).
- Baker, Robert W. Clinical Instructor in Medicine. Assistant Attending Physician, North Shore University Hospital. A.B. 1973, Princeton University; M.D. 1977, Columbia University College of Physicians and Surgeons.
- Bakke, Jens R. Clinical Assistant Professor of Medicine, Associate Attending Physician, North Shore University Hospital. B.A. 1949, Columbus College; M.D. 1953, New York Medical College.
- Balas, Anna. Clinical Instructor in Psychiatry. Clinical Affiliate, New York Hospital. B.A. 1972, Brandeis University; M.D. 1976, Albert Einstein College of Medicine of Yeshiva University.
- Balazs, Leslie Laszlo. Clinical Assistant Professor of Anesthesiology. Attending Anesthesiologist, New York Hospital, M.D. 1959, Dalhousie University Faculty of Medicine (Canada)
- Baliff, Robert Jay. Clinical Associate Professor of Medicine. Attending Physician, North Shore University Hospital. B.S. 1953, Davis and Elkins College; M.D. 1957, University of Rochester School of Medicine and Dentistry
- Balin, Arthur Kirsner. Adjunct Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital, B.A. 1970, Northwestern University; M.D. 1974, University of Pennsylvania School of Medicine; Ph.D. 1976, University of Pennsylvania.
- Balint, George. Clinical Assistant Professor of Anesthesiology. Assistant Attending Anesthesiologist, Hospital for Special Surgery. M.D. 1951, Budapest University (Hungary).
- Ball, Gordon Gibbins. Clinical Associate Professor of Experimental Psychology in Psychiatry. Associate Attending Psychologist, New York Hospital. Ph.D. 1963, Stanford University.
- Ballard, Bruce L. Associate Dean. Associate Professor of Clinical Psychiatry. Associate Attending Psychiatrist, New York Hospital. B.A. 1960, Yale University; M.D. 1964, Columbia University College of Physicians and Surgeons.
- Ballard, Wiley Perry, III. Assistant Professor of Medicine. Assistant Attending Physician, New

- York Hospital, B.A. 1974, Dartmouth College; M.D. 1978, Emory University School of Medicine.
- Balter, Stephen. Adjunct Associate Professor of Physics in Radiology. Professional Associate, New York Hospital. Consultant, Memorial Sloan-Kettering Cancer Center. B.S. 1961, Polytechnic Institute of Brooklyn; M.S. 1963, Columbia University; Ph.D. 1971, Polytechnic Institute of Brooklyn.
- Bander, Neil Harrison. Assistant Professor of Surgery (Urology). Assistant Attending Surgeon (Urology). New York Hospital, Clinical Assistant Surgeon, Memorial Sloan-Kettering Cancer Center. B.A. 1969, Johns Hopkins University; M.D. 1974, University of Connecticut School of Medicine.

Bansal, Manjula. Assistant Professor of Pathology. Assistant Pathologist, Hospital for Special Surgery, M.B.B.S. 1970, Lady Hardinge Medical College (India).

- Barandes, Martin, Clinical Instructor in Radiology Clinical Affiliate, New York Hospital. B.S. 1959, Union College; M.D. 1963, Albany Medical
- Barany, Francis. Assistant Professor of Microbiology. B.A. 1976, University of Illinois, Chicago Circle; Ph.D. 1981, Rockefeller University.
- Barasch, Alan. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital, B.A. 1973, Yale University; M.D. 1979, Mount Sinai School of Medicine.
- Barash, Fred S. Clinical Assistant Professor of Pediatrics. Senior Assistant Attending Pediatrician, North Shore University Hospital. B.S. 1966, City College, City University of New York; M.D. 1976, State University of New York Health Science Center at Brooklyn; Ph.D. 1976, State University of New York Health Science Center at Brooklyn.
- Barbaris, Harry Thomas. Clinical Assistant Professor of Surgery. Attending Surgeon, North Shore University Hospital. B.A. 1965, Georgetown University; M.D. 1969, Georgetown University School of Medicine.
- Barbuto, Joseph. Clinical Assistant Professor of Psychiatry. Assistant Attending Psychiatrist, New York Hospital. Adjunct Attending Staff, Memorial Sloan-Kettering Cancer Center. B.S. 1969, Brooklyn College, City University of New York; M.D. 1978, Albert Einstein College of Medicine of Yeshiva University.
- Bardin, Clyde Wayne. Adjunct Professor of Medicine. B.A. 1957, Rice University; M.S. 1962, Baylor College of Medicine; M.D. 1962, Baylor College of
- Barie, Philip Steven. Assistant Professor of Surgery. Assistant Attending Surgeon, New York Hospital. A.B. 1977, Boston University; M.D. 1977, Boston University School of Medicine.
- Barile, Raymond Giulio. Clinical Assistant Professor of Anesthesiology, Attending Anesthesiologist, New York Hospital. A.B. 1953, Columbia University; M.D. 1957, Georgetown University School of Medicine.
- Barish, Kenneth J. Clinical Instructor of Psychology in Psychiatry. Professional Associate, New York Hospital. B.A. 1972, Yale University; Ph.D. 1980, New School for Social Research.
- Barkan, Irina Filatova, Clinical Assistant Professor of Rehabilitation Medicine in Surgery. Clinical

- Affiliate, New York Hospital. M.D. 1963, Moscow Medical Institute (U.S.S.R.); Ph.D. 1967, Central Scientific Institute for Cardiovascular Surgery, Moscow (U.S.S.R.).
- Barnes, Lloyd T. Clinical Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State University; M.D. 1938, University of Pennsylvania School of Medicine.
- Barnes, William Alexander, Clinical Professor Emeritus of Surgery. Attending Surgeon, New York Hospital. B.A. 1933, City College, City University of New York; M.D. 1937, Cornell University Medical College.
- Barocas, Morris A. Clinical Instructor in Medicine. B.A. 1978, University of Colorado; M.D. 1982, State University of New York Health Science Center at Brooklyn.
- Baron, Ellen Jo. Assistant Professor of Pathology. B.S. 1968, Michigan State University; M.S. 1978, University of Wisconsin, Madison; Ph.D. 1981, University of Wisconsin, Madison.
- Barondess, Jeremiah A. Irene F. and I. Roy Psaty Distinguished Professor of Clinical Medicine. Attending Physician, New York Hospital. Consultant, Memorial Sloan-Kettering Cancer Center, M.D. 1949, Johns Hopkins University School of Medicine.
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- Zola, Benjamin Elia. Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. B.A. 1977, Harvard University; M.D. 1981, Johns Hopkins University School of Medicine.
- Zukowsky, Michael Moses. Instructor in Medicine. Assistant Attending Physician, New York Hospital. B.S. 1971, Fairleigh Dickinson University; M.D. 1977, University of Rome (Italy).
- Zullo, Michael Albert. Assistant Professor of Medicine. Assistant Attending Physician, New York Hospital. Adjunct Attending Staff, Memorial Sloan-Kettering Cancer Center. B.S. 1971, City College, City University of New York; M.D. 1975, State University of New York Health Science Center at Brooklyn.
- Zweifach, Philip H. Clinical Professor of Ophthalmology. Clinical Associate Professor of Ophthalmology in Neurology. Attending Ophthalmologist, New York Hospital. Consultant, Memorial Sloan-Kettering Cancer Center. Associate Attending Neurologist, New York Hospital. B.A. 1957, City College, City University of New York; M.D. 1961, Cornell University Medical College.



RESIDENCY APPOINTMENTS CLASS OF 1988

- Daniel Virgil Alfaro, Preliminary Medicine; University of Southern California, Los Angeles, California; Opthalmology; University of Southern California, Los Angeles, California
- Answorth Anthony Allen, Orthopedic Surgery, Presbyterian Hospital, New York, New York
- Susan Teale Arnold, Pediatrics, Yale-New Haven Hospital, New Haven, Connecticut
- Alexander Dushan Babich, Obstetrics and Gynecology; Duke University Medical Center, Durham, North Carolina
- Kathleen Baldridge, Transitional; St. Vincent's Medical Center, Bridgeport, Connecticut; Ophthalmology; The New York Hospital, New York, New York
- Christel Janet Bauer, Transitional; St. Vincent's Medical Center, Bridgeport, Connecticut; Radiology; The New York Hospital, New York, New York
- Anne Christine Beal, Pediatrics; Montefiore/Einstein, New York, New York
- Elizabeth Hope Berger, Obstetrics and Gynecology; Lenox Hill Hospital, New York, New York
- Robin L. Bliss, Obstetrics and Gynecology; St. Luke's-Roosevelt, New York, New York
- Bradford Alan Bottger, Internal Medicine; The New York Hospital, New York, New York
- Joseph Emory Barclay Burchenal, Internal Medicine, Johns Hopkins Hospital, Baltimore, Maryland
- Steven X. Cabrales, General Surgery; University of Washington Affil., Seattle, Washington
- Matthew Richard Caleb, Internal Medicine; The New York Hospital, New York, New York
- Jack Chen, Internal Medicine; The New York Hospital, New York, New York
- David Liwei Cheng, Preliminary Surgery; The Mount Sinai Hospital, New York, New York; Urology; The Mount Sinai Hospital, New York, New York
- Robert Chin, Internal Medicine; Presbyterian Hospital, New York, New York
- Laurie Ellen Cohen, Pediatrics; Yale-New Haven Hospital, New Haven, Connecticut
- Susan Nancy Cohen, Primary Medicine; Rhode Island Hospital, Providence, Rhode Island
- James S. Cornell, Internal Medicine; The New York Hospital, New York, New York
- Laurie Ann Curry, Obstetrics and Gynecology; North Shore University Hospital, Manhasset, New York
- Margarita deVeciana, Obstetrics and Gynecology; University of California (Irvine) Medical Center, Orange, California

national residency match in March.

Match Day . . . fourth year students get results of

- Andrew J. Diamond, Preliminary Surgery; The Mount Sinai Hospital, New York, New York; Otolaryngology; The Mount Sinai Hospital, New York, New York
- Sharon Angela Dillon, Obstetrics and Gynecology; SUNY-Kings County Hospital Center, New York, New York
- Andrea M. Dobrenis, Obstetrics and Gynecology; The New York Hospital, New York, New York
- Todd Hutchins Egener, Internal Medicine; New England Medical Center, Boston, Massachusetts
- Barbara Eisen, Psychiatry; The Mount Sinai Hospital, New York, New York
- Ann Leilani Fahey, General Surgery; North Shore University Hospital, Manhasset, New York
- Daniel Zev Fisher, Internal Medicine; Massachusetts General Hospital, Boston, Massachusetts
- Maura Diane Frank, Pediatrics, The New York Hospital, New York, New York
- Diane Marie George, Pediatrics; Johns Hopkins Hospital, Baltimore, Maryland
- Sonja Bassheva Gray, Psychiatry; UCLA
 Neuropsychiatric Institute, Los Angeles, California
- J. Michael Haering, Preliminary Medicine; Lenox Hill Hospital, New York, New York; Anesthesiology; Beth Israel Hospital, Boston, Massachusetts
- Stephen Elihu Hall, Psychiatry; University of California, San Francisco, California
- Karl Armistead Illig, General Surgery; Strong Memorial Hospital, Rochester, New York
- Elizabeth Israel, Internal Medicine; Brigham & Women's Hospital, Boston, Massachusetts
- Daniel Joel Javit, Preliminary Medicine; Roosevelt Hospital Division, New York, New York; Radiology; The Mount Sinai Hospital, New York, New York
- Eugene Leslie Jennings, Psychiatry; UCLA Neuropsychiatric Institute, Los Angeles, California
- Edward Jew, Obstetrics and Gynecology; The Mount Sinai Hospital, New York, New York
- David Henry John, Internal Medicine; North Shore University Hospital, Manhasset, New York
- Nicole Kafka, General Surgery, The New York Hospital, New York, New York
- Andrew Scott Kenler, General Surgery; New England Deaconess Hospital, Boston, Massachusetts
- Paul Richard Kirchgraber, Internal Medicine; Case Western Reserve University Hospital, Cleveland, Ohio
- Steven Douglas Knope, Internal Medicine; Yale-New Haven Hospital, New Haven, Connecticut
- Andrea Suzanne Lamar, Transitional; Presbyterian University of Pennsylvania Medical Center, Philadelphia, Pennsylvania

- William Alan Law, General Surgery; St. Luke's-Roosevelt, New York, New York
- Ana Maria Lobo, Anesthesiology; The New York Hospital, New York, New York
- Sharon Lee Lojun, General Surgery; The New York Hospital, New York, New York
- Frank H. Lovaglio, Internal Medicine; The New York Hospital, New York, New York
- Andrew M. Lowy, General Surgery; The New York Hospital, New York, New York
- Andrew David Luster, Internal Medicine; Massachusetts General Hospital, Boston, Massachusetts
- Stephan Mayer, Preliminary Medicine; Presbyterian Hospital, New York, New York; Neurology; Columbia University, New York, New York
- Dinah Miller, Preliminary Medicine; St. Luke's Hospital Division, New York, New York; Psychiatry; Johns Hopkins Hospital, Baltimore, Maryland
- Daniel Loris New, Pediatrics; Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire
- Erica Maria New, Psychiatry; Case Western Reserve University Hospital, Cleveland, Ohio
- Mitchell Dean Newmark, Psychiatry; The New York Hospital, New York, New York
- Frederick Anthony Nunes, Internal Medicine; The New York Hospital, New York, New York
- Jeffrey Oppenheim, Preliminary Surgery; The Mount Sinai Hospital, New York, New York; Neurosurgery; The Mount Sinai Hospital, New York, New York
- Paula Gail Panzer, Psychiatry; Presbyterian Hospital, New York, New York
- Simon Paul, Internal Medicine; University of Texas Southwestern Medical School, Dallas, Texas
- Cheryl Pegus, Internal Medicine; The New York Hospital, New York, New York
- Monica Penner, Pediatrics; The New York Hospital, New York, New York
- Aaron Paul Perlmutter, Preliminary Surgery; The New York Hospital, New York, New York; Urology; The New York Hospital, New York, New York
- Susan J. Perlmutter, Psychiatry; The Mount Sinai Hospital, New York, New York
- Mark Bennett Pochapin, Internal Medicine; The New York Hospital, New York, New York
- Cynthia Anne Poe, Internal Medicine; Mount Auburn Hospital, Cambridge Massachusetts
- Kathleen Marie Redington, Preliminary Medicine; New England Deaconess Hospital, Boston, Massachusetts; Neurology; The New York Hospital, New York, New York
- James Keel Reed, Internal Medicine; Albany Medical Center Hospital, Albany, New York
- Theresa Marie Beltran Rohr, Internal Medicine; Case Western Reserve University Hospital, Cleveland,
- Marta Rozans, Pediatrics; Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
- Paul Thomas Rubery, Jr., Preliminary Surgery, The New York Hospital, New York, New York; Orthopedic Surgery, Hospital for Special Surgery, New York, New York
- Elizabeth Lee Rubin, Internal Medicine; Beth Israel Hospital, Boston, Massachusetts
- Jonathan David Ruzi, Preliminary Medicine; Beth Israel Medical Center, New York, New York; Rehabilitation Medicine; The New York Hospital, New York, New York

- Geoffrey Ira Shapiro, Internal Medicine; Beth Israel Hospital, Boston, Massachusetts
- Michael Brett Silberberg, General Surgery; St. Vincent's Hospital, New York, New York; Otolaryngology; Manhattan Eye, Ear, Nose &Throat Hospital, New York, New York
- David Houghton Sniadack, Internal Medicine; Vanderbilt University Hospital, Nashville, Tennessee
- Margaret Gail Spinelli, Psychiatry; The New York Hospital, New York, New York
- Nina Mithi Taggart, Preliminary Medicine; Bryn Mawr Hospital, Bryn Mawr, Pennsylvania Ophthalmology; New York Eye and Ear Infirmary, New York, New York
- Judith H. Tannenbaum, Psychiatry; The New York Hospital, New York, New York
- Hope Babette Tang, Pediatrics; Presbyterian Hospital, New York, New York
- Alexis Edwin Te, Preliminary Surgery; Presbyterian Hospital, New York, New York, Urology; Columbia University Affiliated Hospitals, New York, New York
- Megan Mae Terwilliger, Internal Medicine; The New York Hospital, New York, New York
- Zoe Ann Tilton de Frias, Obstetrics and Gynecology; Presbyterian Hospital, New York, New York
- Phyllis L. Townsend, Pediatrics; Children's Memorial Hospital, Chicago, Illinois
- Sharon Cecille Tuckett, Internal Medicine; Jackson Memorial Hospital, Miami, Florida
- Kenneth John Vega, Internal Medicine; Boston City Hospital, Boston, Massachusetts
- Edgar Manuel Velazquez, Psychiatry; St. Vincent's Hospital, New York, New York
- Neil Jay Weissman, Internal Medicine; The New York Hospital, New York, New York
- Robert Weitzner, Psychiatry; The Mount Sinai Hospital, New York, New York
- Jonathan H. Williams, Pediatrics; The New York Hospital, New York, New York
- Linda Peart Williams, Internal Medicine; St. Luke's Hospital Division, New York, New York
- Karl N. Winters, Preliminary Medicine; University of Utah Affiliated Hospitals, Salt Lake City, Utah; Anesthesiology; University of Virginia, Charlottesville, Virginia
- Michael Robert Zenn, General Surgery; The New York Hospital, New York, New York

REGISTER OF STUDENTS

Fourth-Year Class

Caroline Amadeo, A.B. 1985, Cornell University Robert Shahram Bahadori, A.B. 1985, B.S. 1985, Cornell University

Nathan Bahary, B.A. 1984, Cornell University Leonard Bakalchuk, B.A. 1983, Williams College David Adam Berkman, A.B. 1985, Cornell University Michael Jerome Bernardo, B.S. 1978, M.S. 1985, Cornell University

William Ross Bernstein, B.A. 1985, Johns Hopkins

Karen Rose Brandt, B.A. 1985, Yale University John Thomas Braun, B.A. 1985, University of Texas Jacqueline Wendy Brooks, B.S. 1985, Cornell University

Mark Anthony Brown, B.A. 1985, Brown University Robert Don Campagna, B.A. 1983, Brown University Roger Vincent Cappucci, B.S. 1985, Fordham University

Keith Caruso, B.A. 1981, New York University Joaquin Emeterio Cigarroa, B.S. 1985, Yale University

Maureen Therese Connelly, B.A. 1982, Yale University

David Cooper, A.B. 1985, Cornell University Asha Das, A.B. 1985, Cornell University Peter Samuel Dayan, A.B. 1985, Princeton University Richard D. Demopoulos, B.A. 1985, Johns Hopkins

Abhijit Vinod Deshmukh, B.A. 1985, Harvard University

University

Roderick Emerson Duhaney, B.A. 1984, Johns Hopkins University

Ruth Ann Dukoff, B.S.N. 1984, University of Pennsylvania

Julia Eilenberg, B.A. 1982, Barnard College Jane Ingrid Epstein, A.B. 1980, Princeton University Phillip G. Fairweather, B.A. 1984, Wesleyan University

Abigail Falk, B.A. 1983, Wesleyan University Mollie A. Fitzgerald, B.S. 1977, University of Texas Charles Wesley Flowers, B.S. 1985, Stanford University

Hagar Foa, B.A. 1984, Swarthmore College Patricia C. George-Siegel, B.S. 1983, Columbia

Jeffrey Evan Gershenwald, B.S. 1984, Cornell University

Leonard Nick Girardi, Jr., B.A. 1985, Harvard University

David Adam Gold, A.B. 1985, Princeton University Ruth L. Graver, B.A. 1984, Wesleyan University Michael Case Groner, B.A. 1983, Brown University Daniel Carter Henshaw, A.B. 1984, Harvard University John Anthony Hinck, A.B. 1985, Cornell University Carol R. Horowitz, B.S. 1982, Cornell University Richard Scott Jennis, A.B. 1984, Brown University Michael Harvey Kane, A.B. 1985, Cornell University Robert Chaprack Kapel, A.B. 1985, Cornell University Michael David Kaplan, B.A. 1984, Yale University Diane Paula Karalekas, B.S. 1983, Massachusetts Institute of Technology

Steven Lawrence Katz, B.S. 1985, Cornell University Milan Kinkhabwala, A.B. 1985, Cornell University Lisa Klein, B.A. 1983, Brown University Glenn Scott Kroog, B.A. 1985, Yale University Ruth Leah Kugelmass, A.B. 1984, Princeton

University
Kurt Vincent Lange, B.A. 1985, Emory University
Carolyn Ann Langelier, B.S. 1981, Georgetown
University

Serle Kevin Levin, A.B. 1985, Columbia University Eric Albert Lifshitz, A.B. 1985, Vassar College Gregory Anthony Liguori, B.S.E. 1985, University of Pennsylvania

Shari Rochelle Midoneck, B.S. 1985, Union College Edward Louis Milano, B.A. 1985, Lehigh University David Harrop Montgomery, B.A. 1984, Dartmouth College

Richard Davis Najac, B.A. 1985, Amherst College Antonia Silva New, B.A. 1982, Swarthmore College Lenora Mendoza Noroski, B.A. 1985, University of California, Long Beach

Gerald James Ortiz, B.S. 1985, Cornell University Oscar A. Palomo, B.S. 1985, City College of the City of New York

Kathleen Susan Perrego, B.S. 1985, Cornell University

Patricia Christine Pollio, B.S. 1985, Cornell University David Ramos, A.B. 1985, Columbia University Wilma Resto, A.B. 1985, Barnard College Carol Ann Riccardi, B.A. 1985, Williams College James Kirkland Roberts, A.B. 1985, Dartmouth

Scott Alan Rodeo, B.A. 1985, Stanford University John David Rossi, Jr., B.A. 1981, Columbia University Susan Rothman, B.A. 1985, University of Rochester Ignacio Rua, Jr., B.S. 1985, Bowdoin University Allan Richard Rutzen, B.S. 1985, Cornell University Renee Maria Sammaritano, B.A. 1985, Bryn Mawr College

Linda Rose Sanderson, B.A. 1985, Harvard University James Schluger, A.B. 1985, Cornell University Susan Soletsky, B.S. 1982, University of Rhode Island

Sarah Alice Stackpole, A.B. 1984, Amherst College Lisa Joan States, B.A. 1985, Stanford University Daniel Howard Sterman, B.A. 1985, Brown University Brian Kirk Stewart, B.A. 1985, Johns Hopkins University

Wayne Allan Ury, B.A. 1984, University of Pennsylvania

Jesse Wagner, B.S. 1985, Cornell University Jeffrey Craig Webber, B.S. 1985, University of Utah David Seth Weinberg, B.A. 1984, Yale University Howard Leslie Weiner, B.A. 1985, University of Pennsylvania

Daniel Eric Weinstein, B.A. 1985, Wesleyan University

John Robert Williams, Jr., B.A. 1985, Wabash College Mary Meador-Wright, A.B. 1984, University of California/Davis

Marlene Jacqueline Wust, B.S. 1985, Cornell University

Third-Year Class

Seth George Aidinoff, A.B. 1979, Harvard University; M.B.A. 1983, Harvard University

Vincent Paul Ascrizzi, B.A. 1986, Cornell University Richard Henry Baker, B.A. 1986, Cornell University William Jeffrey Berg, B.S. 1985, Duke University Joseph Bernstein, A.B. 1984, Columbia University;

M.S. 1985, Harvard University Andrew Blum, A.B. 1982, Yale University; Ph.D. 1988,

The Rockefeller University Hilary Patricia Blumberg, B.A. 1986, Harvard University

Jeffrey Blumenthal, B.A. 1985, Vasser College Dorthe Sophie Brandt, B.S. 1984, University of

Daniel Braun, B.S. 1985, Xavier University Lisa Brown, B.S. 1987, Brown University Juliette S. Charles-Rawlins, B.S. 1986, Cornell

Harold Chin, B.S. 1976, State University of New York/ Stony Brook; M.A. 1981, State University of New York/Buffalo

Grace Ting Chow, B.A. 1986, Cornell University Bruce Edward Clurman, B.A. 1981, University of Virginia; Ph.D. 1988, Cornell University Graduate School of Medical Sciences

Amy Joanne Coene, B.S. 1986, Cornell University Pamela Yvonne Collins, B.A. 1986, Purdue University James Hyde Conway, B.S. 1986, Cornell University Michael L. Cooper, B.A. 1985, New York University Christopher David Corsico, B.A. 1984, Franklin and Marshall College

Linda Cunningham, B.A. 1968, University of Texas; M.A. 1975, Rivier College

Mark Patten Dacey, B.S. 1986, Boston College Wendell Calvin Danforth, B.A. 1986, Drake University Annette Delgado, B.S. 1986, University of Rochester Ronald Paul DeMatteo, B.A. 1986, Johns Hopkins

Chinnavuth DeMonteiro, B.S. 1986, University of California/Los Angeles

Eric John Dieffenbach, B.S. 1986, Boston College Edward Doo, B.S. 1982, Cornell University Carol Eades, B.A. 1985, University of Kansas Peter G. Ehrnstrom, B.A. 1986, University of Michigan Stephen Falatyn, B.S. 1984, Cornell University Steven A. Fern, B.S. 1986, Brown University Christopher G. Filippi, B.A. 1985, Johns Hopkins

Tobe M. Fisch, A.B. 1983, Princeton University; Ph.D. 1988, The Rockefeller University

Patricia Mary Fogarty, B.A. 1986, Amherst College

Christine Lynn Frissora, B.A. 1985, Cornell University Barbara Galantowicz, B.S. 1983, University of Geneva

Kathreen Gimbrere, B.A. 1981, Harvard University Michael Andrew Gistrak, B.A. 1985, Brown University Seth Howard Glick, B.S. 1986, Stanford University Vicki Beth Goldhill, B.S. 1984, Tufts University Scott Lawrence Gottlieb, B.A. 1986, University of Pennsylvania

Thomas Edward Hamilton, B.A. 1986, Bowdoin

Robert Erwin Helm, B.A. 1985, Colgate University Andrea Hidalgo, B.S. 1984, Drexel University Tammy Huang, B.A. 1986, Harvard University Leonie J. Johnson, B.S. 1986, Cornell University Daniel Bougere Jones, A.B. 1986, Cornell University Jane Melanie Kanowitz, B.A. 1986, City University of New York/Hunter College

Sandip Kapur, B.S. 1982, Fordham University Susan Kessler, B.A. 1986, University of Pennsylvania Helen H. Kim, A.B. 1985, Brown University Jeffrey Davis Klausner, B.A. 1986, Cornell University Lisa Robyn Klein, A.B. 1984, Princeton University Beatrice Knudsen, M.S. 1982, University of Vienna

(Austria); Ph.D. 1988, Cornell University Graduate School of Medical Sciences

Anthony Nunzio LaBruna, B.A. 1986, New York University

Ivia Landro, B.A. 1986, City University of New York/ Hunter College

Kenald Lee, B.A. 1986, Johns Hopkins University SunYong Lee, B.A. 1980, Harvard University Lawrence Lind, B.A. 1985, Haverford College John L'Insalata, B.E. 1986, Manhattan College Laurie Beth Meckler, B.A. 1976, Oberlin College Michael A. McDevitt, B.A. 1982, Case Western Reserve University; Ph.D. 1988, The Rockefeller University

Daniel Alexander Medalie, B.A. 1985, Harvard University

Neil Howard Merkatz, B.A. 1986, University of Pennsylvania

Robert J. Min, B.S. 1986, Haverford College Minsen Mok, B.A. 1982, Johns Hopkins University; Ph.D. 1988, Cornell University Graduate School of Medical Sciences

Sarah Adams Montgomery, B.A. 1986, Williams

Thomas Patrick Moran, B.S. 1986, Cornell University Steven Anthony Morris, B.S. 1986, Xavier University of Louisiana

Gregory Allen Myers, B.S. 1986, University of Michigan

Christopher Nelson, B.A. 1977, M.A. 1979, University of Virginia; B.S. 1986, Columbia University Arlene Ornstein, B.A. 1984, Cornell University Andrew Peretz, B.A. 1986, Princeton University Joanna M. Preibisz, B.A. 1980, Bryn Mawr College Donald Lowell Price, B.S. 1985, Johns Hopkins University

Christopher M. Reynolds, B.A. 1986, Cornell University

Daniel F. Rosberger, B.A. 1981, Cornell University Ricardo Tomas Rosenkranz, B.S. 1986, M.S. 1986, Stanford University

S. Robert Rozbruch, B.A. 1985, University of Pennsylvania

Adam Rubenstein, B.S. 1986, University of Illinois

David W. Russell, B.S. 1981, Massachusetts Institute of Technology; Ph.D. 1988, The Rockefeller University

Andrew Schiff, Sc.B. 1987, Brown University Richard Alan Shapiro, A.B. 1985, Harvard University Eric Keith Shepard, B.S. 1982, Rochester Institute of Technology

Scott R. Shepard, B.A. 1986, University of Pennsylvania

Yong Taek Shin, B.A. 1986, Cornell University John Edward Skerry, A.B. 1985, Cornell University M. Joanne Stallmeyer, B.S. 1979, Northeastern

University; Ph.D. 1985 Brandeis University Andrew Brian Stein, A.B. 1986, Dartmouth College Tanaquil Taubes, B.A. 1979, Oberlin College Lewis Chesney Thompson, B.S. 1983, Yale University Alfonso Torres, B.A. 1986, Cornell University John Kevin Tucker, B.A. 1986, Birmingham Southern College

Russell Frederick Turk, B.S. 1986, Boston College Patricio T. Villarreal, B.S. 1986, St. Mary's University Lorna Anne Wilkerson, B.A. 1980, New York

University; M.S. 1982, Sarah Lawrence College Celeste Elena Williams, B.A. 1986, Brown University Susan Carol Wolf, B.S. 1971, Heidelberg College;

M.S. 1974, Ph.D 1978, Ohio State University David M. Wolfsohn, B.A. 1986, Brown University Robert J. Wood, B.A. 1982, University of California/ Berkeley

Deirdre Marie Woods, B.A. 1984, College of the Holy Cross

Second-Year Class

Toni Renee Abrams, B.S. 1987, University of Rochester

Louis Michael Adler, B.A. 1987, Princeton University Jon Walter Ahlstrom, B.A. 1986, Utah State University Kenneth Scott Backman, B.S. 1987, Yale University Gaetano Raymond Barile, B.S. 1987, Haverford

Jennifer Louise Becker, B.A. 1987, Cornell University Christopher Todd Behr, B.A. 1987, Cornell University Ethan Alexander Benardete, B.A. 1986, Harvard

Scott Bruce Berger, B.A. 1983, Emory University Joan Rebecca Birnberg, B.A. 1986, Brown University Alicia A. Boellner, B.A. 1987, University of

Pennsylvania Alain Charles Borczuk, B.A. 1987, Princeton University

Marcus Wolfram Bosenberg, B.A. 1986, Cornell University

Randy Peter Bouliany, B.S. 1987, Xavier University Stephen Michael Bravo, B.A. 1987, Harvard University

Jeffrey Evan Budoff, B.A. 1987, Harvard University John Francis Carew, B.S. 1987, University of Notre

Mary Frances Chisholm, B.A. 1979, Fordham University; M.A. 1981, Fordham University Peggy Piyu Chou, B.A. 1987, Harvard University Kevin Mark Cockroft, B.A. 1987, Johns Hopkins University

Ronald Nelson Cohen, B.A. 1987, Harvard University Leslie Chase Collins, B.A. 1987, Dartmouth College Gary Paul Colon, B.A. 1986, University of California/ Berkeley

Ryan Paul Crenshaw, B.S. 1987, University of California/Los Angeles

Mary Haran Davis, B.S. 1987, Cornell University Byron Paul Demopoulos, B.A. 1987, Amherst College Adrienne Anna Denese, Ph.D. 1977, Eotvos Lorand University

Carolyn Sharyn Eisen, B.S. 1987, Haverford College Cynthia Jean Frary, B.S. 1987, Boston College Cletus Roy Georges, B.S. 1987, Andrews University Cynthia Marie Gerardi, B.S. 1987, Haverford College Leslie Stephanie Go, B.A. 1987, Cornell University Stephen Dyogi Go, B.A. 1987, New York University Glenn David Goldman, B.A. 1987, Dartmouth College Michael Hillel Goldman, B.S. 1985, Cornell University Christine Inice Gould, B.S. 1987, Cornell University Robert Gross, B.A. 1986, Cornell University David Richard Gruen, B.A. 1987, Cornell University Sam Shouwen Huang, B.A. 1987, Cornell University Sohel Islam, B.A. 1987, New York University Anitha Jayakumar, B.A. 1987, Columbia University Deborah Mitsuko Kado, B.S. 1987, Bryn Mawr College

Allen Kaisler-Meza, B.S.N. 1987, City University of New York/Hunter College

Adam Stuart Kibel, B.A. 1987, Cornell University John S. Kim, B.A. 1983, University of Pennsylvania Roderick Kenneth King, B.S. 1987, Johns Hopkins University

Paul George Kocheril, B.S. 1987, New York University

Corrine Catherine Kolka, B.S. 1987, University of Wisconsin/Madison

Joanne Krebushevski, B.S. 1987, Cornell University Daniel Laroche, B.A. 1987, New York University Sean David Lavine, B.S. 1986, University of California/Los Angeles

Nathaniel Edward Lebowitz, B.A. 1986, Williams College

Fred Suin Lee, B.S. 1987, Cornell University Thomas Cramer Lee, B.A. 1987, Johns Hopkins University

Gary Evan Lemack, B.A. 1987, Cornell University Julio E. Lopez-Andujar, B.A. 1986, University of Southern California

Tobey John MacDonald, B.A. 1987, Cornell University Umar Mahmood, B.S. 1987, California Institute of Technology

Wendy Helaine Marx, B.A. 1987, Cornell University Alan Neil Mayer, B.S. 1986, Emory University; M.S. 1986, Emory University

Katherine Jo Michels, B.A. 1987, Cornell University Mark Ian Miller, B.A. 1987, Brandeis University Nancy E. Miller, A.B. 1984, Barnard College Paul Salomon Mischel, B.A. 1984, University of Pennsylvania

Harrison F. Mitchell, B.S. 1986, City University of New York/York College

Virginia Lytle Moodey, B.A. 1987, Bowdoin College Victor Allen Neel, B.A. 1987, Princeton University Marquis Jerue Nuby, B.S. 1985, Whitworth College Una Teresa O'Doherty, B.A. 1987, Barnard College Grace Hyewon Pak, B.A. 1987, Cornell University Adam Ernst Paley, B.A. 1983, Yale University Carolyn Anne Paris, B.A. 1986, University of California/Santa Cruz

Matthew R. Pease, B.A. 1985, University of California/ Berkeley

Lisa Ann Piazza, B.A. 1985, Barnard College Bliss Inui Rand, B.A. 1973, Mount Holyoke College; M.A.1977, New York University Victoria Elana Rand, B.A. 1987, Cornell University

Stephen Paul Raps, B.A. 1987, City University of New York/Hunter College

Brian Joseph Reagan, B.A. 1986, University of California/San Diego

Kathleen Mary Restivo, B.S. 1973, City University of New York/York College; E.D. 1985 Teacher's College, Columbia University

Philippine Johanna Ribbink, B.A. 1985, Barnard

Elizabeth M. Ross, B.S. 1987, Columbia University Alexander Knox Rowe, B.S. 1987, Cornell University Brian Paul Rubin, B.A. 1983, University of California/

Nicholas David Schiff, B.A. 1987, Stanford University Ilias Alexis Scotiniotis, B.A. 1987, University of Pennsylvania

Alexander Duane Serra, B.A. 1987, Dartmouth

Bernard Alan Shuster, B.A. 1987, Brandeis University Byron Howard Simmons, B.S. 1987, Xavier University Marcia Vickery Simpson, B.A. 1986, Amherst College Jami Michelle Small, B.A. 1987, University of Pennsylvania

Jeremy Sobel, B.A. 1987, Cornell University Jane Soohoo, B.A. 1981, Cornell University Elizabeth Ann Stier, B.A. 1982, Brown University William Jackson Swiggard, B.S. 1987, George Mason University

David Lawrence Tirschwell, B.A. 1985, Wesleyan University

William Craig Tomlinson, B.A. 1981, Swarthmore College; M.A.1987, Yale University Esteban Cesar Vietorisz, B.S. 1987, Cornell

University

Ajay Viswambharan, B.A. 1987, Rutgers University Debra Anne Viti, B.A. 1981, Indiana University Priscilla Anne Winchester, B.S. 1987, Middlebury College

Nina Anne Yannuzzi, B.A. 1986, Williams College David Joseph Yasgur, B.S. 1981, Cornell University; M.H. 1982, Cornell University

Nelson Shusang Yee, B.S. 1987, Massachusetts College of Pharmacy

First-Year Class

Ariel Anguiano, B.A. 1988, University of California/ San Diego

Mary Elizabeth Badillo, B.S. 1988, Fordham University

Francis Xavier Basile, B.A. 1980, Amherst College Lisa Rose Battat, B.S. 1987, Yale University Jerry Osborne Batley, B.S. 1987, University of Tampa David Scott Battleman, B.A. 1988, Johns Hopkins University

Jennifer Beth Baum, B.A. 1988, Brown University Karin Elise Berger, B.S. 1988, Cornell University Richard Alan Bernstein, B.A. 1988, Cornell University Brijit Bertsche, B.A. 1987, Cornell University Joel Neelartey Blankson, B.A. 1988, City University of

New York/Queens College Debra Lynne Braverman, B.S. 1988, Stevens Institute

of Technology

Jill Beth Bunzl, B.S. 1988, Cornell University Salvatore Joseph Cannizzo, B.A. 1988, Cornell University

Gregg Louis Caporaso, B.A. 1988, Cornell University Sandy Chang, B.S. 1988, Yale University Yoshie Chiahui Changchien, B.A. 1988, Cornell University

Hearn Jay Cho, B.A. 1988, Princeton University Sarah Anne Clarke, B.A. 1987, Cornell University Donna Elizabeth Coletti, B.S. 1982, State University of New York/Stony Brook, M.S. 1986, Rutgers University/New Brunswick

Debra Ann De Isdith, B.F.A. 1980, Pratt Institue Erika Ingeborg Deinert, B.A. 1988, Cornell University Steven Edward Diaz, B.S. 1986, University of California/Davis

Louise Emily Ferretti, B.A. 1986, Johns Hopkins University

Richard Alan Fiedotin, B.A. 1988, University of Pennsylvania

Michael Wesley Fletcher, B.A. 1988, Johns Hopkins University

Andrea Vernelle Fore, B.A. 1987, Bryn Mawr College Bradley Scott Foster, B.S. 1988, Cornell University Craig David Frances, B.A. 1988, Cornell University Erick Stuart French, B.A., 1983, New York Unibersity Walter Ernst Galicich, B.S. 1988, University of Rochester

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Lasdon Biomedical Research Center, the newest addition to the Medical College. Scheduled for occupancy in October, 1988 the Center will add 92,000 sq. ft. of research space as well as a new biomedical information center.



